

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, * =Stop codon, / =possible nucleotide deletion, \ =possible nucleotide insertion)
21775	52143	A	21903	843	2055	HHRMAQNLSRYGNDKRPEESQ FRVNVNKPVTLYDVAEYAGVS YQTVSRVVNQASHVSAKTREK \VEAAMAE\NYIPNRVAQQLAG KQSL\IGVATSS\AL\H\A\PSQIV AAIKSRADQLGASVVVSMVF\R SGLV\ACHTAPHNLL\ARKRGPA GLI\NYPLD\QDA\A\VEA\ACT NVP\ALFLDVSDQTP\N\SIIFSHE DGTRLGVEHL\VALGH\QQ\VAL LAGPLSSVS\ARLLAG\WHN\FL TGN\IQ\PIA\ER\EGDWSAMSGF QQTLQMLNEGIVPHWRLLVAQ RRSMALG\AMRRHY\PE\SGLRV GA\DLRVGGNTTIPED\SSCYIP AL*PPIKQDFRLLGA/QTSVDRLL LQLSQGQAVKGN\QLLPVSLIV KRK\TL\APNTQT\SPRALPRF H*MLA\ARQVSRLESQ
21776	52144	A	21904	1	1201	
21777	52145	A	21905	1	492	
21778	52146	A	21906	646	934	
21779	52147	A	21907	1	1713	MLCTKWDLGLEKNAGKNKN AYKWYGPANAPDEPHIEQLV GECRVMRQLKRLISRIAPSSV MVVGESGTAIPV\SHA\EFKGGF ADIGVHYLDWTSRTTEKSSTKS HKDDFGYLEFEGGANFWSGEM YGFDDWENFYNGRHNKPGSEQ RYTFKNTKPYLSWVD\TG\SLYL HAYGTYGSANRVN\FLDDM\FL AGFGQF*PAGGW/WGSNPFFA K\RYTRSKPY\TG\NDGYV\AG WVAGYNFM\LGSEK\FLTNWN EYEFDRDATYAADFLPLYDVD CQDNGNLEYD\TYSQPEWKHNL FDHYLA\VLRYFKDESGKFQFSG AVVKTREATPGKEIEA\ITRML DFSRLKKLAD\CPSPRPVFEALC ICSM\LDALL\LCPLDYH\ASCDN YSYALLDPQGF\PLPHRRLWGPY IDVDVPM\HLHIQHA\WQDALL SCLYSDLLYM\SSFPY\AGTLTR LMGV\TSYNH\KNTLLTYC\ITLMS TIRFAYDGD\EEIAMKY\TDFLKG ELSMNIRPLH\DRVIVKRE\ET KSAGGIVLTGSASAKSTRGEVL AVNGRILENGEVKPLDVKIGD IVFNDGYRGEI
21780	52148	A	21908	2060	2404	
21781	52149	B	21909	1	1377	

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21782	52150	A	21910	52	1719	IGQVVDVDTCTRIHLVFNFD NDTGSIHVLNDTTTFSYRSYTG VNGNSTFHTSTNQRLISAQSRN GLTLHVRTHQCTVGIVVFQERD QGRTDGYHLLGGYVHVNLV AAEQAGFAFATASYQVFYEVA FFIQVGVRLGDNVVAFFDSRQV VNFVSYNTVGHFTIRSLKEAVF VSLCVHGRVDQTDVRTFRGF DWTDATVVS RVVYSNFEACTF TGQTAWAECGDTTFVRNLRQR VVLVHKLRLQAGTEELFHCCG SQDPQQPWGWNLRVNPLAQTT GHAHEAQRKQWHKGNEEADD PEPERAFTPGFVQFETERFRPPV GHPCEAAEDHAADHDVMEVR NQEQA VMQNEVRARYGQQHA SHPAHREGDDKTDGPQHRRME HDAALIHGEQPVEDLHPGRDG DNHCGDTKEGVYVRARTHRKE VVQPNDERQHGD TDGCPYQRG ITKQFTTREGCRNFGHE TENRQ DQDVNFRVAPGPNQVDVHHH VATHIVGKEMGAQIAIQGQHAT YRQNGKDL*SNRGVASGNPQC RHRARRATDCQTVIKQPVFFG

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21783	52151	A	21911	608	2508	YITATSCSGWMIRWCAKAAKCA/CSRSGGGKLRRLHKGAEETL CGNTRVLIAPQLPAVIAITLSGS RSQGTGRREGPTTTVMIQDHTG SSTDDECSANVQRIFNRLMLCSI VSRPTIPFHDLAQSFQFRNVK CLWCAFEQAQLMRIQPAIVMV KTIHRERLNSGQFRCHQEARNI PPHRQSRFLASRGLLAELMFML YGIGELPEIVTLPKEIRGNVDNS RHAVFLANSGMPELRFIRTHGS RFTSQDCTLFNWLAKIITPVLQS WLNDEEQQVALRLLEKDRDHH RVLVDITNAVLSHLDLDDLIAD VAREIHFFGLASVSMVLGDHR KNEKFSLWCSDLASHCACLPR CMPGESVLLTQTLQTRQPTLTH RADDLFLWQRDPLLLLLASNG CESALLIPLTFGNHTPGALLAH TSSTLFSEENCQLQHIADRIA AVGNADAWRSMTDLQESLQQ ENHQLSEQLLNLGIGDIIYQSQ AMEDLLQQVDIVA KSDSTVLIC GETGTGKEVIARAIHQLSPRRD KPLVKINCAIPASLLESELFHG DKGAFTGAINTHRGREFIADGG TLFLDEIGDLPLELPKLLRVLQ EREIERLGGSRITPVNVRVIAAT NRDLWQMVEDRGVI
21784	52152	A	21912	147	2699	MTIRAIACCCPLPDA*NVLM*ITY MSTFQASNGGQQLQIARIVIQNI TG
21785	52153	A	21913	432	1016	FCPSSCLAATAPAA*AGWSFLP SPAEQNRWRFLSRFCQIPAPL/ LGTLIISLVFCSILAAASAEIPG SVDGIYNKSPSLI/VVKIPRQLY *AAREPSAPKAPPAAWFSASA VLSATA/MINTNQKAIERVTAFR RNFA TDPVAHQDRDHYDRQQR RTRHRIRFGERQRAKQTPFLPFQ GEDRDKRQRDNQQTDK

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21786	52154	A	21914	1	1146	MTTSMNLNAKLLSPSA AAVVV VRVVVVVGNAPT SRKVGPEEK DWSMASSGTTSTRKRFTGAEFI VHFLEQ/PGH*DCDRHSG/S/CSI LPVYDALSQSTQIRHILARHEQ GAGFIAQGMARTDGKPAVCMA CSGPGATNLVTAIADARLDSIPL ICITGQVPASMIGTDAFQEVDT YGISIPITKHNYLVRHIEELPQV MSDAFRIAQSGRPGPVWIDIPK DEQTA VFEJETQPAMAEKAAAP AFSEESIRDAAMINAAKRPVL YLG GGVINANARVRELA EKAQ LPTTMTLMALGMLPKAHP LSL GMLGMHGV RSTNYILQEADLLI VLELAGVQTVDTDVNASKPAS ATRHIAFQTVTIGCDRNLADSV VFPHSVDDIGKVAA
21787	52155	A	21915	1001	1037	MVGMASSCMPAFTRL ELYSVIS QSTQIRH/LARHEQGAGFIAQG MA/RTDGKPAVCMACSGPG/AT NLVTAIADARLDSIP/LICITGQV PASMIGTDA/FQEVDTYGI/STM TLMALGMLPKAH/ALSLGMLG MHGVRSTNYFCQEADLSIVLG ALFDAGQIGKTSSFCPNAK/I/H VDIDRAE/REFPCPIPKACDLLS H/YGLINAVAACVDDNAIITTD VGQHQM WTAQAYPLNRPRQW LTSGGLGTMGFGLPA AIGAAALA NPDRKVLCSFGDGS LMMNIQ* MIIAIP TGVKIFNWCSP CIRPHR VPFCDAVAIGFIVTFS DVIQIASI YEIPCRDPTGVASTEYSSS CRR RRNTTLCDPGSPAQRQSPQAGQ NPSCPAHRRSATGVGD
21788	52156	A	21916	135	449	
21789	52157	A	21917	5	214	
21790	52158	A	21918	2	337	IGIAKHAQQLLLNVMQTRAVG AEVQTVSATGSAVRQALANNL QPFAIFFQINA/W**RAGRYPDD HGISPETALYGWHTSATGTAG MR*SVRPWLQSGQGCSGWR RQ QPRWSP
21791	52159	A	21919	1	774	



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21792	52160	A	21920	2	914	RHRTPAHLERFIVDIALNVADG HRAKLIVQSAGTFAQTVLRA SANFRQGVGLVRQFRFKNTPL VGELQPVVDVVYRAFLAVW VAARQAAVSLRFGLAFGRRLV NFKLNFAQLRFLWRINAAQ LSCATTT/ADPAVLLHHWTSV* PAQI*WRIS*PVRQNLFTALRAG MLHMLGDKTTQMLFMDRQSV NA*DLQFRVNAFAEIAAFIEN VSETAGHARTEVNAGFTQNAD DTTRHIFTTVVANAIFYHGDSTG VTHAETFTRAACGIQITTTGRAI QAGVADNACFMAAEGGTNRRT TNGD
21793	52161	A	21921	204	371	PGPAGAQAALYRWSPGQAVS RADWFRFADC*IYPENRRNAGS AYRPLSPAYCG
21794	52162	A	21922	2664	2970	TPDTAPAGCRSRAPDGPSPRQ MPRRRG*FHTARYCRTPRAITA *R*TE*STCPARTGEWYAHARY APGTSRQTATMPPTMPRRRASS YSSTQPDGRRQNC
21795	52163	A	21923	318	459	
21796	52164	A	21924	577	888	TNSSNQQLAEGNRRLIGRNTA GPERITAGRRL*LFSCQNRPCGW RFNKCHIGMPVVIWRIIVMGI QHDDLVPFGMRVNRVNMQF AKTLGQRALLRRNSLIA
21797	52165	A	21925	3	711	AGAHSGPSHPALATTAARQSV AGNRSGISGFSGHSRNPTRMSA RCL*SSVALERLMRRLNGEIQI SDVTTTTPSLSPQVYCSAMSRN LCTRATPRWQASAGHPYCRWTA SYCAIYSDRSIRGNYSRQSFAS GRRVPTGSWQKTESEKDCSTC CANWANDRTPLPTSSANCST NVQTSVVPVLRRIWLTSLRV VLTSLKSVCAAGTSPQASCWFW VKRAASSATSPVVIITC
21798	52166	A	21926	244	535	TRYDDHGISPETALYGVWHTSA TGTAGMR*SVRPWLQSGQGCS GWRQQPRWSP**RSC**CSVY PATL*FCRLYNQTSQPGHSDLP AFPDSDRRKI

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21799	52167	A	21927	869	2923	PKKDLKIATSAMMEAAYSV*SR TLFW/SPVRDSQVTDQTQWQGL MSQRLRLQGFDLVLQWTRYGD AFTQPEQRLLFKRAAAQQA GLKLIVGLNADPEFFMHQKQSS AALESYLNRLAADLQQAQLW SAAPGITPDGWYISAEIDDLNW RSEAAQPLLTWLNNAQRLISD VSAKPVYISSFFAGNMSPDGYR QLLEHVKATGVNVVWQDGGG VDKLTAEQRERYLQASADCHD GAAPHGKIVFKLIIA*RARR
21800	52168	B	21928	72	690	
21801	52169	A	21929	1	2241	
21802	52170	A	21930	1607	1893	NKRIFPSDVKVAEPDHSCV*SFR IGSLASNLSSLKTRPAFFQLLIK HVD/SMCHQRLSGSRKSKHNVI AVVFSYCSVSVFASCPHTQVL LQTQYF
21803	52171	A	21931	1	3960	
21804	52172	A	21932	1	1281	
21805	52173	A	21933	1	1491	
21806	52174	A	21934	1	1254	
21807	52175	A	21935	1	723	
21808	52176	A	21936	740	880	NKRIFPSDVKVAEPDHSCV*SFR IGSLASNLSSLKTRPGFFPTVN
21809	52177	A	21937	1	1191	
21810	52178	A	21938	1033	1248	
21811	52179	A	21939	1	1425	
21812	52180	A	21940	1	2784	
21813	52181	A	21941	676	1467	
21814	52182	B	21942	1	3288	

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21815	52183	A	21943	145	1929	VSGVIEIADGSRRRKAAALTES DYRVVLVGELDDEQMAALSRIG NDYRPTSAAYERGQRYASRLQN EFAGNISALADAECNLTCTHT SHGSMVAETA VINHKKRRKNSP RIVQSNDLTEAAAYSLRDQKRM LYLFVDQIRKSDGTLQEHDGIC EIHVAKYAEIFGLTSAEASKDIR QALKSFAGKEVVFYRPEADAG DEKGYESFPWFVK/RPSRGLYSV HINPYLIPFFIGLQNRFTQFRLS ETKEITNPYAMRLYESLCQYRK PDGSGIVSLKIDWIERYQLPQS YQRMPPDFRRRLQGFCFRFNH IIQTGFSPAGANQRGPLAATLSG PGGEGQSAVARLTGEKKNHFG AQYANRLSPRVGRFINAAGTTG FPTWKAGSERNAINDDVITYAIK PTCWPLDIHPSCLALHRIETEL MGKFDEGKLPTDPLMLRLAIE TVAHDYDVVIDSAPNLGIGTIN VVCAADVLIPTPAELFDYTS LQFFDMLRDLLKNVDLKGNSN GSQSPWMEEQIRDAWGSVMVLK NVVRETDEVGKGQIRMRVTVE QAIDQRSSTGAWRNALSIWEPE CNEISIGVSLDQDGSNSVLRK
21816	52184	A	21944	1790	2947	TDFSVRCKGCRIGPFLRLIFQDR IVGVELIAVF*NTGPRFSSCRLS WRRPFDKTCRMRWHQRLSGFP QEQNDGKQPILC
21817	52185	A	21945	1	888	
21818	52186	A	21946	252	1863	RKNPFILH*LFR*TLRQTKPDSS AGKGVKI**HTQNQRSGRSQND F*RRLW
21819	52187	B	21947	1	1794	

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21820	52188	A	21948	138	341	PNPGRLLNTITPEHFKSKLHIPT TYRQSNGITASHYSYARN*RVG VMARGNAITLPVCGRDVKFTL EVLRGDSVEKTSRVWSGLLELL KAAASLVFLEQHKPYEEIGTSF GSVLVS VVGEGPFVEEDLRKSF PGRWDKHKMFDAIEEPKKDS DKFDANDPILKQDTQEWSSGA TFTSDGKIRLFYTDYSGKH YGK QSLTTAQVNVSKSDDTLKINGV EDHKTIFDGDGKTYQNVQQFID EGNYTSGDNHTRDPHYVEDK GHKYLVEANTGTENGYQGEE SLFNKAYYGGGTNFFRKESQKL QQSAKKRDAELANGALGHIELK YDYTLKKVMKAADHFQTPVTD EIERANVFKMNG
21821	52189	A	21949	761	916	NKRIFPSHVKVAEPDHSCV*SFR IGSLASNLSSLKTRPAFFQLSIE LSPT
21822	52190	A	21950	1	1437	
21823	52191	B	21951	50	1690	
21824	52192	B	21952	1	1032	
21825	52193	B	21953	1	1974	
21826	52194	A	21954	878	1202	SVYNKRIFPSDVKVAEPDHSCV *SFRIGSLASNLSSLKTRPAFFQ LSIEFRRPFDKTCRLMCHQRLS GFPHEQTQRDSTCIQLLFRQRF AAASCPTHQVLLQTQYF
21827	52195	B	21955	7	1702	
21828	52196	A	21956	527	665	NKRIFPSDVKVAEPDHSCV*SFR IGSLAFNL SLALKTPARVFTVD
21829	52197	A	21957	469	687	
21830	52198	A	21958	2	1018	EGSDSRAFAKENNQKAYKET GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNAADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDNIDS WKNAGR VFKDSD KFDANDPILKQDTQEWSSGATF TSDGKIRLFYTDYSGKH YGKS LTTAQVNVSKSDDTLKINGVED HKTIFDGRKTYQNGQQFIDEG NIPPATPYAERPYYFEDKGLKY LGKPTVEPSVCGGRLESPWQTA GVSP TVQKLKSLKFDVRGQEE VWEKDEAALANWTVPNHCTD NLKTCHTLHGSVMAETA VFN KCLKNSPRIVQSNHLI
21831	52199	B	21959	7	1113	
21832	52200	B	21960	1	1188	

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21833	52201	B	21961	1	1414	
21834	52202	B	21962	1	1515	
21835	52203	A	21963	1652	1916	RKNPFILH*LFR*TLRQTKPDNS AGKCVKI**HTQNQRSGRSQND F*RR
21836	52204	A	21964	1	1353	
21837	52205	A	21965	1	1507	MAAQDAMVTRISSQTDCKEPG LKWAGVVLMLLLCWLMPQVL WEACQOKTGEHKTMLQMILCN KSYQQLRLVITPMYMLGDWL SKNCGQNSTPSLGDNPPERQTQ EWSGSATFTSDGKIRLFYTDYS GKHYGKQSLTTAQVNVSKSDD TLKINGVEDHKITFDGDKITYQ NVQQFIDEGNYTSGDNHTLRDP HYVEDKGHKYLVFEANTGTEN GYQGEESLFNKAYYGGGTNFF RKESQKLQKSARKRDAELANG ALGIIHLNNDYTLKKVMKPLITS NTVTDEIERANVFKMNGKWYL FTDSRGSKMTIDDLHIHAEDTL LPFYLGEKDDVITYAIKPTCWPG LDIIPSCALAHRIETELMGKFDE GKLPTDPHMLRLAIETVAH*P AEK*HQNHSSPF*PRFFAVSLRT GSSYHCILSSH
21838	52206	A	21966	729	843	NKRIFPSDVKVAEPDHSCV*SFR IGSLASNLSSLINM
21839	52207	B	21967	1	1416	
21840	52208	A	21968	1	1794	
21841	52209	B	21969	1	1171	
21842	52210	A	21970	1108	1250	NKRIFPSDVKVAEPDHSCV*SFR IGSLASNLSSLKTRPGGASRVP K
21843	52211	A	21971	1	2535	
21844	52212	A	21972	743	898	NKRIFPSDVKVAEPDHSCV*SFR IGSLASNLSSLKTRPAFFQLSIE LSAT
21845	52213	B	21973	1	1605	
21846	52214	B	21974	1	1873	
21847	52215	B	21975	1	2946	
21848	52216	A	21976	1419	1498	
21849	52217	A	21977	1	2314	
21850	52218	A	21978	1	1215	

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21851	52219	A	21979	1	1851	PWISAPVPVDVVEGAMDSVTV LSFGGLMLYFCAGWPPARRWC FPESISCGSMERDQWWGLQVA KRAGLAGGQSGRTVLRERVRIE IASTHIALAARHSDWRCCRNGR YPARGPAALQNFQRYTGIQHV HRIGMAERMWCDNRNRERTVS SSGGNRLPNPGPDRSCDNLKTC HTSHGVSMAETA VINHKKRKN SPRIVQSNDLTEAAYSLSRDQK RMLYLFVDQIRKSDGLTQEH GICEIHVAKYVEIFGLPFAEAS KDIRQALKSFAGKEVVFYRPEE DAGDEKGYESFPWFIKRAPSPS KGLYSVHINPYLIPFFIGLQNRL TQFRLSETKEIPNPYAM/RLYTN TLCQYRKPDGSGIVSLKIDWII RYQLPQSYQRVWTPGINCPEPC PGVWTPGINCPGA WGIGHPHGS AENTGPLHPGQTSQALETSLP SLRSARELELAQLSPRRKQNR LQNGIVTPSLRVPWPKASNVQ FIDEGNYTSGDNHTLRDPHYVE DKGHKYLVEANTGTENGYQG EESLFNKAYYGGGTNFFRKESQ KLQSSAKKRDAELANGALGII LNNDYTLKKVMKPLITSNTVTD EIERANVFKMNGKWYLFDTDSR
21852	52220	A	21980	3197	5376	
21853	52221	A	21981	543	5690	RKNPFILH*LFR*TLRQTKPDNS AGKCVKI**HTQNQRSGRSQND F*RRWRSY
21854	52222	A	21982	2241	2614	ETLTLTKTKAINTLYSKPTREQ KTDTKAKNLYLTKRTTAAART SSVKKAI SFNRALKNAMLS*RT APSVS*IRHRV*NL TMRSSSSA PSPWML*A*A WLCRYCRASCGI SSIPTASPVTMACC
21855	52223	A	21983	31	892	
21856	52224	A	21984	548	855	
21857	52225	B	21985	1	1825	

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21858	52226	A	21986	1	3146	MEWGKFKRLVLPSQGKSKPEQ RCQYRHTVGDQATLPLRSRVE KRNGEAEGRIRKLDVVALLC CVQEINGEKPLRALTEVKS FRLREDSDKFDANDPILKDQTO EWSGSATFTSDGKIRLFYTDYS GKHYGKQSLTTAQNQQFIDE GNVTSQDNHTLRDPHYVEDKG HKYLVFEANTGTENGYQGEES LFNKAYYGGGTNFFRKESQKL QQSAKKRDAELANGALGHIELN NDYTLKKVMKPLITSNTCDN
21859	52227	A	21987	1	3107	MNEMKREEKFREKRERNEQI LQEIRDYVKRSNHLIGVSKSD GENGTELENTLQDIQENFPNLA RQANIQIQEIQRMQLQRYSSRRTT PRHIIVRFTKVEMKEKMLRAAR EKGRVTHKGKPIRLTADLSAET LQATKEWRPIFNILKEKNFQPRI SYPAKLSFISEGETKYFTDKQM LRDFVTTRPALKELLKEALNME RNNRLVKSLAWSQNGFRSPA LLPLSLMLCAPLQEADGTNLG WLAHCGLLCTGDH
21860	52228	B	21988	239	2825	
21861	52229	A	21989	7533	11119	
21862	52230	A	21990	1	3718	MEVIPEGYRLSELKKCSKWIVV MVARLYEYTKNQIIHLKWWN HMLGCLLDRNDPLRDVDEAAV PVLICCSADDPVCGPPDHTLTTE LFHSNPYFFLLLSRHGGHCGFL RQEPLPAWSHEVILESFRALTEF FRTEERIKGLSRHRASFLGGRRR GGALQRREVSSSNLEEIFNWK RSYTRLMAAAAGAAAAPGSRE PQDRPECGAGHPGPRYYRHPER WLLRPEAFGLPLRTRAPSADS QRERPAARSGPEM
21863	52231	A	21991	1	697	
21864	52232	A	21992	1	978	

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21865	52233	A	21993	145	1929	VSGVIEIADGSRRRKAAALTES DYRVI.VGELDDFQMAAISRLG NDYRPTSAYERGQRYASRLQN EFAGNISALADAECDNLKTCHT SHGSVMAETA VINHKKRKNSP RIVQSNDLTEAAAYSLSRDQKRM LYLPVDQIRKSDGTLQEHGIC EIHVAKYAEIFGLTSAEASKDIR QALKSFAGKEVVFYRPEEDAG DEKGYESFPWFIK/RPSRGLYSV HINPYLIPFFIGLQNRFTQFRLS ETKEITNPYAMRLYESLCQYRK PDGSGIVSLKIDWIIERYQLPQS YQRMPDFRRRLQGFCFRNII HQTGFSPAGANQRGPLAATLSG PGGEGQSAVARLTGEKKNHFG AQYANRLSPRVGRFINAAGTTG FPTWKAGSERNAINDDVTYAIK PTCWPGLDIIPSLALHRIETEL MGKFDEGKLPTDPLMLRLAIE TVAHDYDVIVIDSAPNLGIGTIN VVCAADVLIVPTPAELFDYTS LQFFDMLRDLLKNVDLKGNSN GSQSPWMEEQIRDAWGSMVLK NVVRETDEVGKGQIRMRTVFE QAIDQRSSTGAWRNALSIWEPE CNEISIGVSLDQDGGSNSVLRK



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21866	52234	A	21994	1184	2229	RSSVATVALLHAVINHKKRKN SPRIVQSNLDTEAAYSLSRDQK RMLYLFVDQIRKSDGTLQEHD GICEIHVAKYAEIFGLTSAEASK DIRQALKSFAGKEVVFYRPEED AGDEKGYESFPWFIKRAHSPSR GLYSVHNIPYLIPFFIGLQNRFT QFRLSETKEITNPYAMRLYESL CQYRKPDGSGIVSLKIDWIIERY QLPQSYQRMPPDFRRRFLQVCV NEINSRTPMRLSYIEKKKGRQT THIFFDMLRDLLKNVDLKGFEF DVRILLTKYSNSNGSQSPWMEE QIRDAWGSMLKNVRETDEV GKDTLSLTPAAPMVDSLIARVG VMARGNAITLPCGRDVKFTL EVLRGDSVEKTSRVWSGAVSQ GGESFIYMPLTGAAFLSEMP PERRNLKKQCGYSGFAACGYQ SQERKNSPRIVQSNLDTEAAYS LSRDQKRMLYLFVDQIRKSDGT LQEHGICEIHVAKYAEIFGLT AEASKDIRQALKSFAGKEVVFY RPEEDAGDEKGYESFPWFIKRA HSPSRGLYSVHNIPYLIPFFIGLQ NRFTQFRLSETKEITNPYAMRL YESLCQYRKPDGSGIVSLKIDWI IERYQLPQSYQRMPPDFRRRFLQ DHNSSPEREQNWMEFDELT EVGFRRWVITNSSELKEHVLTO CKEAKNLDKRLQELLTRISNLE NIDDLMEKNATAQELHETYTSI
21867	52235	A	21995	82	325	
21868	52236	B	21996	220	1173	
21869	52237	A	21997	1	1599	
21870	52238	A	21998	188	421	
21871	52239	A	21999	1	596	MGMTMDMGSKKKSQGPSFP GGAPPAIGAAGRERPPGTGD PFNRQPCDNLKCTHTSHGSVM AETAVINHHKKNKNSPRIVQSN LDEAAYSLSRDQKRMLYLFVD QIRKSDGTLQEHDGICEIHVAK YAEIFGLTSAEASKDIRQALKSF AGKEVVFYRPGEDAGHEKGYE SFPWF/IKRSPE*RRGKFPFTQM GQD
21872	52240	A	22000	1	1527	
21873	52241	A	22001	2	870	

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21874	52242	A	22002	1	4304	MAETAVINHKKRKNSPRIVQSN DLTEAAYLSRDQKRMLYLFV DQIRKSDGTLQEHGICEIHVA KYAEIFGLTSAEASKDIRQALKS FAGKEVVFYRPEEDAGDEKGY ESFPWFIKRAHSPSRGLYSNRFT QFRLSETKEITNPYAMRLYESL CQYRKPDGSGIVSLKIDWIERY QLPQSYQRMPPDFRRRLQCINA GHEMTKAIQFNDDSPARK ITRRWRIGEAADLVGVSSQAIR DAEKAGRLPHPD
21875	52243	A	22003	740	1159	SLPNLDNSAICSSSSPTRTR*SL SVSAAALRRRLPSAISMTPDTL RPNAGVC*PVSRRKEGMRSSAS SVSSWSRSLPDHTREVFTLS RSTSRVNFTSRPHTGKVMALPR AITPIRAINESTIETAGEDNEVSS TG
21876	52244	A	22004	664	1844	SGNLKACHPSHGVSMAETA/VI NHKKRKNSPRIEQ*KDGYQQA YLSRDQKRMLYLFVDQIRKSD GTLQEHGIGI/QIHGAQYR*QIS D*PFAEASKDIRQALKSFAGKE VVFYRPEEDAGDEKGYESFPWF FIKRAHSPSRGLFSGHIPP/YLIPF FIGVKNRLTQ/RLFETKEIPHPS AL/RYYESLGQDRK/PDGSSIGS LK/IDWIERYQLPQSYQRMPPDF RRRLQHFLAHAGCPKGTQNF FRMKFIISIKKVLPPVDTLAHD PVIHTCHLRESFGSVSPSPKSN RLPCPEVILFHYGESWNLLRAD QRLIFAKSWPRASRYQQGHQD LFILRSDLPSQVFIIRDKLMEERN RRTGRTKARIWGSDDGQNGQE PGYVEAGCPPLLLTV
21877	52245	A	22005	3	272	
21878	52246	A	22006	1	528	
21879	52247	A	22007	461	831	LLNLATWRYLGLTRGTASIVA VAGILAAALRITNNKLSNHVVF QGAGEAAMGIAHLLVMAARRK K/GTERTTATRKIWMVDSK/GLI CQEGGSHLN/HHEKEMFAQDH PEVNSLEEVRLVKPTAM

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21880	52248	A	22008	3	1894	EGEDRGLPRTMGAAALGTGTRL APWPGRACGALPRWTPTAAPQ GCHSKPGPARPVPLKKRGYDV TRNPHLNKGMAFTLEERLQLGI HGLIPPCFLSQDVQLLRIMRYV ERQSDLDKYIILMTLQDRNEK LFYRVLTSDEKFMPIVYPTTV GLACQHYGLTFRPRGLFITIHD KGLATMLNSWPEDNIKA VVV TDGERILGLDLGCYGMGIPVG KLALYTAGGVNPPQCLPVLL DVGNTNEELLRDPLIYGLKHQ RVHGKAYDLDLDEFMQAVTD KFGINCLIQFEDFANANAFRL NKYRNKYCMFNDDIQGTASVA VAGILAAALRITNNKLSNHVVF QGAGEAAMGIAHLLVMALEK EGVPKA/EATRKIWMVDFKGL IVKGRSHLNHEKEMFAQD/HPE SNSLDEVVRLVKPTAIIGVAAIA EAFTEQILRNMAFRRAPIIFA LSNPPRKAECTAEKCYR/TEG PRGFFASGKSFRLSVDL/ESMGK TFIPGGRGNNARVPRGWQLG VHSPGGDPGHIPDEIFLPDSRA KLPEVSEQHL/SQGRLYP/PLS TNRDVSRLAIKVL DYAYKHNL VSYYPEPKDKEAFCKIPGSYTP DYDSFYTVDSYTWAGQKAMN
21881	52249	A	22009	322	567	
21882	52250	C	22010	338	603	
21883	52251	A	22011	127	417	
21884	52252	A	22012	253	424	
21885	52253	A	22013	124	1235	YLCLLPKQGQDRALSRTSQWP QMSQSACGGSEQIPGIDIQLN RKYHITRKLSTTKRFTACWR KKVGAFTKIIEAMGFTGPLKYS KWEDLRLRALRIVY*LCGRKLD FEGFFSKICSMPDTFNSWFLINP YFHVWMCLVRMKQEGRSGBK MCRITVHFHWEDVQQRGRVM GVNPPYLKKNMILMTNHEFYAA ILGYDEGILSDDHGLAAALWK NLLNARKCEDPRHLELLVEYVR KQIQYLD/S/MNGEDLLLTGEVS WRPLVEKNPQSILKPHSPTYND RGTFDGLGPPHGGPAGFRGTSR EEKCLVGRPTPARKWPEDLLN KHL SKYLAPICVEFPLSVPQESD LLGYRAWENPLALPGCPSSLRG

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21886	52254	A	22014	282	435	GGGASPAACSGSPDSS/HSATA GTGCRPPARPPAPPTPTPWRS RQQGSRAS
21887	52255	A	22015	3	399	IVALPFGHHHSQTSPLPNLLQTA ACLLHFLLLSGVETGRPGPWQ PRIRARPPAPPPGPARPAKPRRR /GCRGPAREACWYGCRRPARPP PAPPTPTHGAAGSREAERASEL/ C*GARPLRLGSAGTIMVSACVP
21888	52256	A	22016	279	872	KIPHSLSLKLQGAASSKIPTQNP HLSPGTKRDSSFQPWLSAFHIT GQCCSYIVRWGLWKPRILVV KKYAALSAEMLLVKEEPSA ACSGSPDSSSFCNCW*PAAAGR L/ASAAQRPPTPNAHKRSRQQG SRASERAS/CKGRGRYGLGALG GRGGRALGGSRWPPPLGETLF SGCKHRRRRRGSDAAPGEEAG
21889	52257	A	22017	106	398	NAAPFSRHAAFQGFSWAVCIFR LPAERALRLFASCLVLPGGPS GVAPHGWPLPTTAPLLQGVW RVEVGEHEMAEIFFSAKKEAAG ALQRPCIPVW

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21890	52258	A	22018	I	1806	MRGNTAGGPGDEKPDSTHPPV EGTLQEAQEMKKVVRFMWTS GGPDPQHWRGSLYGQLVAQ MLHIDVAQVYMDSWWPRCST LAWLRFIWTAGGPDAPHWLR GLGGQLVAWMLHVGAQVYYV DSWWPSCASMWLSFMEHKQ CLTLGYEVALFLQHFLSRAFLV VWVPRKEAQVLRQGLSLTFR ENPGVCVMSSYRPWLITAAAD MQPSKPGGTGSYCSYWSPTDN TPRLAAACTWNLGSSHGSAAG VRTFIEAGFSPFLAPKALALTL SDSDSRWGNPNVYAQPQ/PEP AWGNPNV*GQPQPRNRPG/PEP CVCSTPTAEPPWGNPVSTPTA EPAWGNPNVYA/PTPTAEPPWG PNPV*GQPQ/REPAWGNPNVY GQPQPRNRPGSPQGNLYCSA ALGATDPSQSWHQCSQNLLPA DKGAKREAPW/PRPPSGEVDHQ VWHLHGWLPTTAPLLQGVW RVEQTPASHHRQPRPRQSSPST KAPPVITVNQGPASHHRQPRPR QSSPSTKAPPVITVNQGPASHH RQPRPRQSSPST/TGPASHHRQPR RPRQSSPSTKAPPVITVNQGPAS HHRQPRPRQSSPSTKAPPVITVN QGPASHHRQPRPRQSSPSTKAP PVITVNQGPASHHRQPRPRQSSP STKAPPVITVNQGPASHHRQPR PRQSSTLTKAPPVITVNQGPASH

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21891	52259	A	22019	27	1367	R/LAGPARAEAGSASDRSTGHL FPRGVGMDLCHQPAELSSGET DELPR1*WHRKQLLEDIQKLKD EIADVFAQIDCFESAGDSRMAH KENELCIGRKKFNMDPRQGRW LWRARATGCCGCMGAPAWFL SGEGLNKTAIGTYLGER*ERVE P*RGKR*RCAGVYRCVDVQAL R*VVLGGQPGPGQWHSPSGWG CRDPRYCLCNPGVFQSTGARRG VGPRAPGLQHCQA*ISQTRPPF ERFVSMNRGINNGSDLPEDQLR VREAQPTQPGPGESRRDLSLDG WPFNFDPREGWLLKLGERPTD TRRRTHTHARAGTHRCMHITV SRVLLGLPLPPLPAQPTSQ/PPT SRC/LRLQDPE/CWSHWEIS*TE RGESRVVEGKHESYRISATSAE ERDQWIESIR*GVPRSGDGFSP SRRPCFFWVLRDSWRWHWGL VTLRVPSAAGDP
21892	52260	A	22020	140	356	
21893	52261	A	22021	2	1147	APARGPAVASGFPSPGAAEPVQ NTETAAMTTHVTLEDALSNVD LLEELPLPDQPCIEPPSSIMYQ ANFDTNFEDRNAFVTGIARYIE QATVHSSMNMEEGHEYAV MLYTWRSCSRAIPQVKCNEQP NRVEIYEKTVLEVLEPVTKLK FMYFQRKAIERFCSEVKRLCHA ERRKDFVSEAYLLTLGKFINMF AVLDELKNMKCSVKNDHSA Y KRAAQFLRKMA DPQSIQESQNL SMFLANHNRTQCLHQCLEVIP GYEELLADIVNICVDYYENKM YLTPESEKHMLLKVMGFGLYLM DGNVSNIIYKLD AKKRINLSKID KFFK/HAAGGAPFRRHADRAGO IH* DQCSL*REQVQVDVHPEQH QPPVQYL RADGSDPG

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21894	52262	A	22022	47	1581	ALVLMYLASSICMSPKRGTTCS CLERGSRCPTSEPPPPPEPPGRS SRCRPGLGPGGGGKEMADDP SAADRNVIEIWIKIKLIKSLAA RGNGTSMISLIIPPKDQISRVAK MLADEFGTASNISRVNRLSVL GAITSVQQRLKLYNKVPPNGLV VYCGTIVTEEGKEKKVNIDFEP FKPINTSLYLCDNKFHTEALTA LLSDDRQVWDFIVIGG/SVGALF GHTPGKNTTRGGPWHKFTVGIFF K\KHG*EGGQ\A\LRFA\LRME KRHINYVRKVAETA\VLFISSGD KVN\AGLVLAGSADFKTELSQ SDMFDQRLQSKVLKLVDISYG GENGFNAIELSTEVL\SNVKFIQ EKKLIGRYFDEISQ/DLTGKYCF GVEDTLKALEMGAVEN\LVVYE NL\DIMRYVLHCQGT\KEEKILY LTPEQEK\DKSPFH\DKETGQ\EL ELIESMPLLEWFANNYK\KFGA\ TLEMFTDKSQKGSVP**KDLGG IGG\ILRYQSRFPGEWNTKKET MNFLTLMITTR
21895	52263	A	22023	1	296	VEDERVACGPAWERQAGQERP ARKVQKKAPEAGKHGCLLDI LVCTYLAELKGLSGCGLTEALV AFGEGLSLGRKNCRDPWGSRL QEPHWSDP/WSGPPPERCKGKPK RRRGSTDAFWTWSWART*PRRG SLAAVG*QRHWWPLGRAAV*E ERTAETPGAPSGRSLTGQTLGS LHV
21896	52264	A	22024	5	309	LPDADLFPCACGAAAGRASA GMRPVFAVSVARTPSPR/PPPAE PQFPRLPGSGISGPPFRDIDTIQK FPDMLSSFFFRDIDTIQKFPDML VFNCCCLLNQSR
21897	52265	A	22025	1	258	RGRSRIARSASGPRPALVRPPAR PPAP*TPRSWSCWSSC*PRASAS TGSPSA*ATDAHADSSKAMLPE PTSSISKFS\TQTVPFRL
21898	52266	A	22026	119	692	PSSHVSRTATYSSLRQSAVSTR STTTTLAFMARAGGRAGGRAR VGGRTSPGQCGCPACGAAAGR ARSAGMRPVFAVSVARTPSPR/ PPPAEPQFPRRPQR/GAPAPSGG GASLPAPRALASSIPAQLMKPG RAKGSAGNLHPG\EGRPGARRS DPAGAARSLACP*IWPKQTPSP LASSSSFFLSETPCAH

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21899	52267	A	22027	2	246	
21900	52268	A	22028	1	927	
21901	52269	A	22029	251	1077	VTMGKVLAVSSLPAGPPPPVP ALVGLPPPP*HPGRLPLPGGG LGARTSVGRGLERTPGAATASA AGGAEDGACRCLPNPCTFECH RKCKEL*MEGVKFTENKAL/SS KMAIQTQSKFVKWQVDGEYR GSDFTVDVTLWNPDVLMGSGI LVAHYLSITPCLALGSELVYH RRPGEEGTVMVAGKYTLNNW LATVDVFEASTRMQDTNVSF GYQLDLPKANLLFKGSVDSNW IVGATLEKKLPPLPLTLALGAF LNRKNKLRSGFGLTIS
21902	52270	A	22030	1	1171	GGSGFGCAWRTGWERSPGRE QAPPPATMGNVLAASSPPAGPP PPAPALVGLPPPPSPPGFTLPP LGGSLGAGTSTSRSSERTPGA TASASGAEDGACGCLPNPGTF EECHRKCKELFPIQMEGVKLT V NKGLSNHFQVNHVTLVALSTIG ES NYHFGVTYVGTKQLSPTEAFPV LVGDMDNSGSLNAQVIHQLGP GLRSKMAIQTQSKFVNWQVD GEYRGSDFTAAVTLGNPDVLY GSGILVAHYLQSITPCLALGGEL VYHRRPGEEGTVMVSLAGKYTL NNWLATVTLGQAGMHATYYH KASDQLQVGVEFEASTRMQDT SVSGYQLDLPKANLLFKGSVD SNWIVGATLEKKLPPLPLTLAL GAFNLNRKNKFCQCGFGLTIG
21903	52271	A	22031	14	434	CYCQGILSPPPCPPFLLGSAQTS AICSWVRGVPAESSTSSFPKAP* VALESRGAEPTLHLPVTSRFLQ CVSSEQECVPWK/HSSPRPRFL DISPSPTCVRL*APGPVPFDPHQ KTWRSPLGTRAQGVGPDRDRS CRIVPG



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21904	52272	A	22032	989	1859	VYGD <sup>W</sup> SR <sup>W</sup> SLALSPRLCSGA <sup>W</sup> SAH*NLCLPGSSDSPASRITGISGARHHAQLI/L/YVFLVEMRHHVGGAGLKL <sup>L</sup> TSGNP/HHLGLPKCWDYSRKPPRP <sup>R</sup> PII/FSFFLRWSLALVAQAGMQWDDLSLQPLPPGFK*FSCLSLLRSWDYGCPPRLANFVCVCV <sup>L</sup> V/VDGGFTMLARLGLLELLTSGDLPPFGLPKCLGFTGM <sup>S</sup> HCAPIFF <sup>F</sup> FE <sup>F</sup> MESCFATQAGVQWCDLSLQPLP <sup>R</sup> PFK*FSCLSLLSSWDYR <sup>H</sup> MPCLANF/CFGIFSRDRVSSCWPGRSQTPDLK
21905	52273	A	22033	157	376	SHQDFMRTAANLLQTGWCTGSENTGAGARWGLCRASLSRCRCAAPSAPCSGSRCS*RSWKGTHPSLPPRCRGRS
21906	52274	A	22034	298	399	
21907	52275	A	22035	1	185	
21908	52276	A	22036	311	516	WKAERRTRHLLQTGWCTGSNTGAGARWGLCRASLSRCRCAAPSAPCSGSRCS*RLWKGTHPSLPPRCR
21909	52277	A	22037	1	1487	MMGHSSAIPLATPGLKGQSP TKMPDP <sup>E</sup> LGCGAKSQGCSRNARHQKARS <sup>M</sup> PLQDQHLALAILLELAVQRGTL <sup>S</sup> QMLSAILLLLQLWDSRAQETD <sup>N</sup> ERSAQGTSTLLSL <sup>L</sup> QTFSIICS <sup>K</sup> DTPPSEGNMHL <sup>L</sup> SGPLSPSESFLRESFFTQVNCRNNEEVT <sup>L</sup> ICKADLENHNKDGGF <sup>W</sup> IVIDEKVYDIKDFQTQSLTGNSILAQFAGENPVVALEAAFEFEV <sup>T</sup> RESMHAFCV <sup>G</sup> QYLEVRLYALSDAEDGRGHPLMASV <sup>I</sup> HLWRLQTSQ <sup>I</sup> HYSYNEEKDEDHCSSQWAHL <sup>P</sup> ANRDCSHRWALGDHSQAFLQAIAD <sup>N</sup> NIQDHN <sup>V</sup> KTHQEQGRSYKEVCTPVIER <sup>L</sup> RFLSNELRPAVGNDLSIIEFKLLSSLPRWRRIAQKIIRERRKKRIPKKPESTADEEKIGNEESDLEEACILPHSPINVDKRP <sup>I</sup> AIKSPKTITSENPLG/REPGEHPASPLPDDAQHAHPAAQRKQPRPPAQFRHAGPHSDGTAPDWPQL

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21910	52278	A	22038	263	375	AGPRRMRRISAWAVSTPLTDSPPSGHQPA/GEVAGAGSF**HPP/PCPSRYCPQMTPPPPPAPPPALPPPPPPAPASPLPPAPSPPHAPQQUALPPPPALPPPPASPLPPALSPPLPAPP/PPSAPPASPPAPPPPPAPPPSPPPAPPSAPSSAPLPPAPASPPSPAPPPAPPPAPHPPSPAPPCPLPRPRGSPVQEKVHQV*IPVPAPAGEGGPAPGRJWPQGWRRAGKPPTWEEALAAFPWTALPPASA VPAQPPRAH*VAPAL*WALHRRSDSDSSNLSRPIPGTGGRRQPR*DS*APACSEVAGAGSF
21911	52279	A	22039	1	2001	
21912	52280	A	22040	1846	7725	PEPFCHRAAHWSNQYCPFQFQDSDSPRQTLTVLIKDNGEPSLSTATLTVSVTEDSPEARAEFPSCGSAPREQKKNLTFYLLSLILASVGFVVTAAGVVIIFKVYKWKQSRDLYRAPVSSLYRTPGSLHADAVRGGMLSPHLYHQVYLTDSRSDPLKKPGAASPLSRQNTLRSCDPVFYRQVLGAESAPPGQIRYPVPEESQEGTFVGNVAQDFLLDSDLSARRLQVAGEVNQRHFRVDLDSGALLIKNP
21913	52281	A	22041	108	340	PQPSQVMSFHGDSGSCRRWATAGT*ATSPPCSSIFLRRMHSGHWCSWPVRGTGTCRDFTAQMAGPSRGSKINRSMW
21914	52282	A	22042	275	752	EKTHKTCRCGRGCGKRGTL*HCWWEKNLLQPLWKMVVWKLKELVELLCDLAVPL/LGINPEEKKSLYEKDTCT/R/LFMAAQLAIKKKWNQPKCPSINKWLQKLWYIYMMEYSAIKRNLTAFAATWMRLLETILSQGDPLESTCSRQANRQEITSVPKA
21915	52283	A	22043	25	202	DAEAWAMELADVGA*ASSQGAPQPEEPAASLGVNEKGGAGGRSGRRPLGRDRPPTRL

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21916	52284	A	22044	1	2290	MEKLGVEPEEEGGGDDEEDAE AWAMELADVGAASSQGAPQ PEEPAASLGVNEKGVHDQVLP PNASSRVIVHVDLDCFYAQVE MISNPELKDKPLGVQQKYL TCNYEARKLGKVKLMNVRDA KEKCPQLVLVNGEDLTRYREM SYKVTELEEFSPVVERLGFDE NFVDLTEMVEKRLQQLQSD SAVTVSGHVYNNQNSINLLDVLH IRLLVGSQIAAEMREAMYNQL GLTGCAQVASNKLLAKLVSGV FKPNQQTIVLLPESCQHLIHS HIKEIPGIGYKTACKEALGINS VRDLQTFSPKILEKELGISVAQR IQKLSFGEDNSPVILSGPPQSFSE EDSFKKCSSEVEAKNKIEELLAS LLNRVCQDGRKPHTVRLIIRRY SSEKHVGRESQCHIPSHVIQKL GTGNYDVMPPMVDILMKLFERN MVNVKMPFRLTLLSMCFCSLK AVNTATTRLIDYYLMPITISITSR SGKHSFKMKDTHMEDFPKDKE TNRDPLPSGRIESTRTRESPLDT TNFSKEKDINEFFCLSLPEGVDQ EVFKQLPVDIQEEILSGKSREKF QKGKGSVSCPLHASRGVLSFFSK KQMQDIPINPRDHLSSSKQVSS VSPCEPGTSGFNSSSSYMSSQK DYSYFLDNRLKDERISQGPKEP QGFHFTNSNPAVSAFHSIFPNL QSEQLFSRNNHTTDSHKQTVAT
21917	52285	A	22045	2	141	
21918	52286	C	22046	278	489	
21919	52287	A	22047	130	426	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, * = Stop codon, / = possible nucleotide deletion, \ = possible nucleotide insertion)
21920	52288	A	22048	357	1579	QRRPRFPSPQGISMTCEFLPPTSS PSEHRRVEHGSGLTRTPSSEEIS PTKFPGLYRTGEPSPPHDILHEP S*SNGLMDEKDHGKKKGNFKK KEKRTEGYAAAFQEDSSGDEAE KLMPRFEEAYGRITTEKVVQEF QRLLKELPEGNYLLISLVVHM DHVITKELEAKMNIQNIYIVVSP TVQISNLVLYVFFTHVQELFGN VVLLKQVTKRRWSNVATMPTL PETQAGFKKEIRIQELLNCLHQ DLQGGIKDLSEERLWEEKIL TKQEELLGMEQFLRRQIASEKE EIECLRAETAIEIQSHQQQLSET EYSSSESESEDEELQIILEDLQR QNEELEIKNNHLNQAIHEESEA VIEPRMQPWLLQLQPDRAKQQ AQEDEEPEWRGGAMQTPKNGI
21921	52289	A	22049	182	2212	VTEKTSLSLPSQGISMTCEFLPPT SSPSEHRRIVEHG/SAGLTPGPPA SEEIQLPKFPGLYRTGEPHPP P*HPSHESLM*CPDDEKDHGK KKGKFKKKKEKRTEGYAAAFQED SSGDEAESPSKMKRISKGIHVFK KPSFSKKVREKDFKIKEKPEEEK HKEEKHKEEKHKEKSKDLTA ADVVKQWKEKKKKKKPIQEP VPQIDVPNLKPIFGIPLADAV TMMYDGIPLPAVFRECIDYVEK YGMKCEGIYRVSGIKSKVDELK AAYDREESTNLEDYEPNTVASL LKQYLRDLFPENLLTKELMPRFE EACGRITTEKVVQEFQRLKEL PECNYLLISWLIVHMDHVIAKE LETMNIQNISIVLSPTVQISNR VLYVFFTHVQELFGNVVLLKQV MKPLRWSNMATMPTLPETQAG IKEIIRRRQEFLLNCLHRDLQGGI KDLSKEERLWEVQRILTALKRK LREAKRQECETKIAQEIASLKE DVSKEEMNENEVINILLAQEN EILTEQEELLAMEQFLRRQIASE KEEIERLRAEIAEQSRQQHGRS ETEEYSSSESESEDEELQIILE DLQRQNEELEIKNNHLNQAIHE EREAIHELVRQLRLLMQORAKA EQQAQEDEEPEWRGGAVQPPR DGVLEPKAAKEQPKAGKEPAK
21922	52290	B	22050	34	322	

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21923	52291	A	22051	137	1546	QMLGRRPPRWLQAKARALA RRRPPPSLHLTLPTALSLSKSRTP VPKSIPISETNPVSVQPPASIG PPLGVPP/PEPSHGDDQPRPG/APL PIFMEQQIMQIQRPFIRGPPVPM PPTPTAPCPTPCFPASGPRPVAP ETWAPLPACTGPGCY/PPHPPE/ PPPP/SPGNPPGLPPPPGAPLPS LPFPVSMMPNGMPVQMMN FGLPSLAPLVPPPTLLVPYVIV PLVPPIPIPIPSATPSPTGSP ATGRTSFRTLATPRRRAASQA DTPCPGTPSRARPSRTRPPAA RARP*AWRPPPSMAGARWWT *RGAPA/PPGPPGRGRPARLPRR AAGPAGRRHRPDRGPPSPAAQR DPPRAA/PRTSRRSASRAPRSAG PAAAAGTATAARPPATQARA PRRAPRRPRPATSS*TARAAPPP/ SGAKSAEPPPEQPPPPPPAPPK KLLSPEEPAVMRARVQGGE
21924	52292	A	22052	762	2049	RSSFMSGADLLACST/SGLGNM PYDLLRGMEPTLGCSFEDLAL A*PGGITQEKINEMRVAPEQQ M/ADIHFMIAAGQDLWDIDAQ GATLLHIAGANGYLRAAEELLDD HGVVRVDKDWGWEPLHAAA FWGQMMAELLVSHGANLNA RTSMDEMPIDLCEEEEFKVLL ELK/HHKDVIMKSQLRHKSSLS RRTSRHRQAS/SVGKVVRRTQPV GTGPNLYRKEYE/GEEAILWQR SA/AEDQRTSTYNGDIRETRTD QENKDPNPRLEK/PVLLSEFPTK IPRGELDMPVENGLRAPVSAYQ YALANGDVWK/VHEVPDYSMA YGNPGVADATPPWSSYKEQSP QTLLELKRQRAAAKLLSHPFLS THLGSSMARTGESSEGGKAPLI GGRTSPYSSNGTSVYYTVTSGD PPLLKFKAPIEEMEEKVHGCCR
21925	52293	A	22053	2	306	SKEAFAIGLGGGSASGKTTVAR MIIEALDVPVWVLLSMDSFYK/ NAFDFDLIIITLKKLKQKGSVK APIYDFTTLRKMDWKTLYGA NVIIFEGIMAFADKTL
21926	52294	A	22054	2	379	

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21927	52295	A	22055	352	1227	GDVSPQLSPRQKSGPLCTSCCA WPVCSPHSDAQPSGEGGLWE KTPFLSVPHRFVPRAALASAHQ CHPLPRTLVLKSTPQVRGMHT IIRDKETS RDEFIFYSKRLMRLLI EHALSFLPFQDCVVTQPGQDA *RITGVSIILRAGETMEPALRAVC KDVRI GTILIQTNQLTGEPELHY LRLPKDISDDHVLMDCTVSTG AAAMMAVRVLLDHDVPEDKIF LLSLLMAEMGVH/SVA YAFPR VKKSSPRRWDKAGQLTFFRIIP GIGNFGDRYFGTDAVPDGSDEE EVAYTG
21928	52296	A	22056	72	2746	FLVETGLHHVGQAGLKLLTSN DPPASASQSTGITGMSHHAQPR QSSYVPPMSLPASAMPVEGVG GDALWAGHASGYLGGGQLWA TSEYIPLCSSNAESLDRLLPPVG TGRSPKRTRTRQCKSEPPLRTS KRTIYTAGRPPWYNEHGTQSKKE AFAIVPVEQKEAGQPQAAAA GWAPLGPICAGSLPVPHRGSPL PPAGLGGGSASGKTTVARMIE ALDVPWGGSSLSDMSFYKVLVT EQQQEQAAHNNCNFDHPDAFD FDLIISTLKKLKHGKSVKVPYID FTTHSRKKDWKTLYGANVIIFE GIMAFADKTLLEGPGAPCTGP EDSIIRHIAAPSLHKASSRANYC VLSMGTDPKLATSPIPQCVGAS YPKQRCPCGEVALARPTDQAAS VQGLVPVSPCLLASGHSCLARC LHQLLDMKIFVDTDSIRLVRR LRRDISERGRDIEGVIKQYNKFV KPSFDQYIQTMRADIVVPRG SGNTVGHRP*LLQHVHSQLEEV SGVPRPHGLAPSPSTHFSAAATP SWPVHLIPLRSLSPASSSSQPAQ LCQQELGNCSSKLLGLGRGRPL SLPKGRHAGGAALASAHQCHP LPRTLVLKSTPQVRGMHTIIR DKETS RDEFIFYSKRLMRLLIIEH ALSFLPFQDCVVTQPGQDYA GKCYAGKQITGVSIILRAGETME PALRAVCCKDVRI GTILIQTNQLT
21929	52297	A	22057	61	341	
21930	52298	A	22058	1	1086	
21931	52299	A	22059	1	498	
21932	52300	A	22060	104	3395	
21933	52301	A	22061	1	1653	

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21934	52302	A	22062	1	1717	
21935	52303	A	22063	172	13375	EDLFK CIMAHAAASQLKKNRDL EINAE EEPKRRKRRKSRDRK KKSDANASYLRAARAGHLEKA LDYKNGVDINICNQGLNALH LASKEGHVEVVSELLQREANV DAATKKGNTALHIASLAGQAE VVKVLVTNGANVNAQSQNGFT PLYMAAQENHLEVVKFLLDNG ASQSLATEDGFTPLAVALQQGH DQVVSLLLENDTKGKVRPAL HIAARKDDTKAAALLLQNDNN ADVESKSGFTPLHIAAHYGNL
21936	52304	A	22064	1	360	
21937	52305	A	22065	1	2577	
21938	52306	B	22066	323	3154	
21939	52307	A	22067	93	791	IRMSYAEKPDEITKDEWMEKL NNLHVQRADMNRLIMNYLVTE GFKEAAEKFRMESGIEPSVDLE TLDERIKIREIDT*KGQIQEAI RL *FNSLHP EL/L WDTNRYLYFHF ASNSILIPS*FRQ/GKTRGRRWG VAQTQLAD/RGEESRECLTEME RTLALLAFDSPPEESPFGDLLHT MQRQKVWSEVNQA VLDYENR ESTPKLA/KLLKLLLWAQNELD QKKVKYPKMTDSLKGGD
21940	52308	A	22068	171	426	
21941	52309	A	22069	5	655	LLQPSVQLPNGTANTSLSFAAV SAVSPPPCRTSTATLPPMPSPF FCVFPSPSPSPSEFLSCIASVS RVHSLSSSSSGSSSTASSLNFSAI MGSSSATASWVLSTTTPPCPS ALPSSPAQES*SLAASSSAWLSE HPSFSSFTLSWASGAFCEVLSL FSGSKLSFLSSKGDCGIPPI* TSA CPSSLDSPCFSSSTKSSSYSEI GKSPQPI

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21942	52310	A	22070	87	1180	NQASLEVLPSVPDSDPSIPSP/SDNPNRNFSAPVSVCLPSPLPVAASWPSDPSSCSCSPSEVFRSRAPGVPTPASVYVYVTVISSAAGTSSPLRANSSTTTFPAAAVFPTNSSCWQVSSSATSEKEEALFAIVFSSAVSEPANTSLSSAAVSAVSPPPCRTSTATTLPMPSPFCVFPSPSPSPSPSEFLSCIASVSRVHLSLSSSSGSSSTASSLNFSAIMGSSSATASWVLTSTTTPCPSALPSSPAQES*SLAASSSAWPVAGISPSGACFTFAGSASGAAPSPSWRCPSFRALFSLLDSSLSLCSVSLASLSLSPPSFLRAVMFPATFKSRRCFKYGNHCLFSDLLWLEVCAL
21943	52311	A	22071	841	1052	IGEVLLDNVLKSVF*LGSLVLPITSLKLLP/SGSKRDPKAMSHSHAP*VTGAFPRCGRWRLQPAAPPPPS
21944	52312	A	22072	817	866	HANPVSPTSPWPKE*SWP*CSG**RTFQSVSFAGGRRGWSLKPPPATAWKSSSCHLP SGVRMAHF CRIPFGPRGRDFADFGTTIKQDF RLLGQTSVDRLLQLSQQAQVKGQQLLPVSLVKRKTTLAPNTQTASPRALADSLMQLARQVSRLES GQ
21945	52313	A	22073	2	3238	TTFPAAAVFPTNSSCWQVSSSATSEKEEALFAIVFSSAVSEPANTSLSSAAVSAVSPPPCRTSTATTLPMPSPFCVFPSPSPSPSPSEFLSCIASVSRVHLSLSSSSGSSSTASSLNFSAIMGSSSATASWVLTSTTTPCPSALPSSPAQES*SLAASSSAWPVAGISPSGACFTFAGSASGAAPSPSWRCPSFRALFSLLDSSLSLCSVSLASLSLSPPSFLRAVMFSSDFSNPGVASNMGTTVSF
21946	52314	C	22074	88	4374	
21947	52315	A	22075	73	616	VKESLTQKSKRFQNKLINRRGWERPRSGASWTQRRALGGRCVDRWLGI/WPHRIPGARLRGFPALNPTPQTAPSPSPDPRPRPP/CPSDPGPRTEAQCSL/PPPPSPRHLDPGPEPTPLTQQGQKGTTRAPRPRCPRSQK*ATSGPAVRRREA RGSASLRTRAPSRDSTHAGIQGNVALQP



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21948	52316	A	22076	1	421	GTVMGLPKYFISLSTKFFLSFS LSADELHIAFLWPRSKPFGVI QRSASQLNALPEVLKNPGDDP KMLRFAESPRNLPAVL/GDIW TDGKGSVSLQEQQVYHFLIRPT PGS*ARASFLSCG*EEFRRHGLT FSSTRE
21949	52317	B	22077	211	2041	
21950	52318	A	22078	200	1525	IMASAHLATSAFCIRSSSSGRSG SCKRGSWDSEQALIRAWTTLP SLHIAADGSGFAGGRGIPSKRWS WRAGQQSSLCIMQTSNCGNS FQLVSEGASWRGLPHCSCAELQ DSLNFYSYHPSGLSLVRPSSPGN SPKEQPFQVLRPEPPDPEKL PPAPPKRHRCSLSVPVDSL QPVWRPAPSKLWTPIKHRGSGG GGGPQVPHQSPPKRVSSLRFLT SSQCLFSMCPSSQTLQPSFLQPG PGPSSSRPCAASPSQSGSWESDA ESLSPCPPQRRFSLSPSLGPQAS RFLPSARSSPASSPELPLAT*G/L SATFPESRSQPCDLARKTG RRHEEDPRRLRPSLDFDKMNQ KPYSGGLCLQETAREGSSISPP WFMACSPPLSASCSPGTGGSSQ VLSESEKEEGAVRWGRQALS KRTLQCRDFGDLNLNIEEN
21951	52319	A	22079	1	117	
21952	52320	A	22080	3	632	
21953	52321	A	22081	1	448	MQSETETVHLFIPALSVGAIIGK QQQHIKQLSRFAGASIKIAPAEA PDAKVRMVIITGPPEAQFKAQG RIYGKIKEENFVSPKEEVKLEA HIRVPSFAAGRVIGKGGKTAST *QNLCSGMMGKALKAKPSTYN CVGCGWSPRPRCSLN

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21954	52322	A	22082	233	2096	RREDEGNKTSWIHPSPWVVLI RFFSLFFFKQPLFTMNKLYIGNL SENAAPS\DLKSIFKDAKIPVSG PFLVKTYGAFVDCP\DES\WALR AIKAFSGKIELHGKPIEVHSVP KRQRIRKLQIRNIPHLQWEVL DSL\LVQYGVVESCEQVNTDSET AVVNVTYSSKDQARQALDK/L LDKLNQFQLENFTLKVAIYIPDE MATQQNPFLQPRGRRGLGQRG SSRQGSPPGSSVSKQKPCDSPLRL LVPTQFVGAIIGKEGATIRNITK QTQSKIDVHRKENAGAAEKSIT IPSTPEGTSAACKSILEIMHKEA QDIKFTEEIPLKILAHNNFVGRLI GKEGRNLKKIEQD\TDKITISPL QELTLNPERTITVKGNVETCA KAEIEIMKKIRESYENDIASMN LQAHLPGLNLNALGLFPPTSG MPPPTSGPPSAMTPPSQSEQSE SETVHLFIPALSVRALISKQGGH IKQLSRFAGASSKIAPVEAPDAK VRMVMIAGSPPEARFKAQGRIY GKIKEENFVSPKEEVKLEAHIR VPSFAAGRVIKGGKTV\NELQ NLSSAEVVVPRDQTPDENDQV VVKITGHFYACQ\VAQRKI*EFL TQVRQHQQQKALQSGPPQSR

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21955	52323	A	22083	8	1675	TASCRLAMALHVPKAPGFAQM LKEGAKHFGLEEAVYRNQAC KELAQTTTRTAYGPKGMNKMVI NHLEKLFVTNDAATILRELEVQ HPAAKMIVMASHMQEQEVGD GTNFVLVFAGALLEAEELLRI GLSVSEVIEGYEACRKAHEILP NLVCCSAKNLRDIDEVSSLLRT SIMSKQYGNVFLAKLIAQAC\ YLFFLIIPAISMLITSEFVK/FLGS GISSSSVLHGMVFKKETEGDVT SVKDAKIAVYSCFPDGMITETK GTVLIKTAEELMNFSGKEENLM DAQVKAIDTGANVVVTGGKV ADMALHYANKYNIMLVRLNSK WDLRRLCKTVGATALPRLTPP VLEEMGHCDVYLSEVGDTQV VVFKEHEKEDGAISTIVLRGSTD NLMDDIERAVDDGVNTFKVLT RDKRLVPGGGATEIELAKQITS YGETCPGLEQYAIKKFAEAFEA IPRALAENSGVKANEVISKLYA VHQEGNKNVGLDIEAEVPAVK DMLEAGILDITYLGKYWAIKLA TNAAVTVLRVDQIIMAKPAGGP KPPSGK*NWLNIFYCR
21956	52324	A	22084	175	278	

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21957	52325	A	22085	208	1976	GPSPLKEHFSGLEETAYM/NILTCMELAQTTTRTAYGPNMNMKVINHLEKLLVTNDAAATILRELEVQHPAAKMIVMASHMQEQEV\GDGTNFWLVFAGSFPVNYLKNLWVRIGLSVSEVIEGYEACRKAHEILPNLVCCSAKNLRDIDEVSSLLRTSUMSKQYGLMKVFLAKPYLLQACRIYFSWIPASMLITSEFVK/FLGSGIRSS*VLAGMVFKKETEGDVTSVKDAKIAVYSICPFDGHG*QET*GEQCLDKRTALKDLDGIFR*GEQENLHG/AATSPKAIADTGANVVVTGGKVADMALHYANKYNIMLVRNLNSKM/WDLRRLCKTVGATAPRLTPSLSLKEMGHCD/SVYLSEVGDTQVVVFKHEKEDGAISTIVLRGSTDN/L*LDIERAVDDG/VNTFQGS LQRDKRLVPGGGSNRNLN*PKQITSYGETCPGLEQYA/ILK KFA*GHLKAIPPAHWQKYSGENSGVKAQWK*SPKLYAVHQEGINKNVGLDIEAEVP/SLVKDML EAGIPRYLTLGKYWAIPLATNA AVTVLRVDQHTLV*FFFMQIIMAKPAG/GGPKPKWGRKTWGD DQNGLKIGFNFYCR
21958	52326	A	22086	1	346	PF*CTPSCLWAF*TARSAQTWSAPSTRWCSEWPKSLPSTWLR*FRKVSSYSWSQSWSSPTASTDSSRPPHSLGASCHPGHQSLMPPSR*ATSTAYASLSSSHRPNTQPSPS
21959	52327	A	22087	3	484	RSSQPRVGLCGKSLQP/SSEGSC HLGQGWCSFPRSVSSSIMAE*RT*PRVSSSMHGRGPTQNRATKKASSSETSV/QVTAQEAQAEPGAAGVAG/SPASAPQDSAGACWPAQVL*GGSDRSCRGSHPGNTEPPSVLRTGTAPGA*G/SSPFSPTTQS GSCCFPFSS
21960	52328	B	22088	181	339	

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21961	52329	A	22089	290	2014	STCTPLPTASSQSRPHPPPTPTTPP APWRSSNGQVPTLT*PGSTLPP G/SGKSP/VASGGPARAKPHRA VHVSPA PSGSGPGDVAELPAAV AVRA*QAGSGQRLPAPVCVGE MGTLCPGEPADVHVQVCGLSE PRAPHRPGQPQARAHGVPSGQS LCPAQPG*DDS/AKVSSYSWSQ SWSSPTASTDSRPPHSLGASCH PGHQRLMPPSR*RA TSTA WRA RTASTPRCLGPRPAPWSCASLSS SHRPNTQPSPTS VRRARLATP SSHWALAPWTPMARTQPTTW TRWGKTVSGRQMNTWRRPWS TCARYSGSAKRSSGSHSPWAP PRMRMEKSNSPTASWVRTDSS LRPWGGTRSSMGCEGLKLSR GTRCSPSGAMRSPAWSAHSLG CRLPSTTDLQDRWRLCVPGMT SSAASVATTSQNLGWPACTC*A LWGGGRWPA TPAA/QAQPALP GQLPTRWSRCCWPSSWPLCSAS GPSHARCCSPWAMSTPL*HC *PSGSGCTSPGVSCLSRLEGF ATQPHPPWAERTWEAPPGNTV ILGLLERGSCSRRIWRKRNQE RKAGRAPAKE
21962	52330	A	22090	363	487	
21963	52331	A	22091	234	282	
21964	52332	A	22092	742	990	
21965	52333	A	22093	1	206	LFPAFSDSRECKLMKKLLEA/H EEQNVD/SYTEA/VKEYDSIFPG WTQWL.TTL.LLRKKTIQG/DEK DLR
21966	52334	A	22094	128	1062	KPFEEAMYN SGKEAEAMALLA EAER/KV/KNSQSFFSLFGGSS KIEEACEVYARAANMFKMAKN WSAAGNAFCQAQLHLQLQSK HDAATCFVADAGNAFKKADPQ GGPFNCFDCVAFIY/TDMGR/F TIAAKHHISIC*DLLRQKLVDIE KAIA/HYRALADYYYQGEESNS/S ANKCLLKVAGYA/ALLEQYQK/ AIDIYEQGWGPNAHWTSPPPSK YSAKDYFFKAALCHFCMDML QA/KLAFQKYEELFPVFSDSRE CKLMKKLLKA/HGEQNVDSY TE/SVKGITDSISRLDQWL/TH CLR/KKKTIRGD
21967	52335	A	22095	1	1038	

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21968	52336	A	22096	20	2482	RVCSSASTASQAVMADAWEE IRRLAADFQRAQFAEATQRLSE RNCIEIVNRLIAQKQLEVVHTL DGKEYITPAQISKEMRDELHVR GGRVNIIVDLQVVINVDLIHIE RIGDIKSEKHVQLVLGQLIDEN YLDRVGQEVNDKLQESGQVTI SELCKTYDLPGNFLTQALTQRL AIIIGHIDLNRGVIFTEAFVAR HRARIRGLFSAITRPTAVNSLIS KYGFQEQLLYSVLDLVNSGRRL RGTVVGGQDQKAVFVVDIYSR TQSTWVDSFFRQNGYLEFDALS RLGIPDAVSYIKKRYKTQLFL KAACVGQGLVDQVEASVEEAI SSGTWVDIAPLLPTSLSVEDAAI LLQQVMRAFASKASTVVFSDT VVVSEKFINDCTELFRELMHQ KAEKEMKNPNVHLITEEDLKQI STLESVSTSKDKKDERRRKAT EGSGSMRGGGGNAREYKIKK VKKKGRKDDDDSDDESQSSHTG KKKPEISFMFQDEIEDFLRKHIQ DAPEEFISELAELYLIKPLNKTYL EVVRSVFMSTTSASGTGRKRT IKDLQEQEVSNLYNNIRLFGKRG WKFFADDTQGWLLPKHLELV QCVLISLNLINFLGFGILMDG Q*DDPGRPFTSELRKEILSKLS EETKVALTKLHNSLNEKSIEDFI FCILDSAAEACDIMVKRGDKKR ERQILFQHRQALAEQLKVTEDP
21969	52337	A	22097	1	711	VLSLFDGIATGYLVKLKELGIKV GKYVASEVCEESIAVGTVKHEG NIKYVNDVRNITKKNIEEWGPF DLVIGGSPCNLDSNVNPARKGL YEGTGRLLFFEFYHLLNYSRPKE GDDRPFWMFENVVAMKVG KRDISRFLCNPVIMDAIKVSAA HRARYFWGNLPGMNRPIASK NDKLELQDCLEYNRIARIFGFP VHYTDVSNMGRGARQKLLGRS WSVPVIRHLFAPLKDYFAC

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21970	52338	A	22098	406	2885	GRGILVNGACSDQSSDSPPILEA IRTPEIRGGWAVGTGVVSGADI VSGHCRQWSLLSLFQSGTLLSL AFITWAFRETRTRSESPAVSSHT SSQSTCGQHST*HT*HARGRQG RNHVDESPVEFPATRVGSPDAQ TPARSL*LGDMPHSLTIDLDDDT EDTHGTPQSSSTPYARLAQDSQ QGGMESPVQEADSGDGDSEY QADGRELLPRV/I*GP*TRGKTS YAMVVSWKATSKRQAMSGMR WVQWFGDGKGFSEVSPGKGKGF CRPEAVPACLPNKLVSRYKA MYHALEVTWDEGMRAP*EQ G*SKRPTELEDQLKPMEWAH GGFKPTGIEGLKPNNTPGGNE SPWQHPLPLLPGPLLGRVRLKT NCYNNKGDRGDEDSRGDCW VPGIMGQMGGRCSRSGIDVIPL TPWLGL*ACLVQCQTRVSPPTT ALDLPLASSNSPLLCEGRELL LCSNTSCCR*ALGPVGMWVVG PQGSYVPVAV*EPWSCYMCLPQ RCHGVLRRRKDWNVRLQAFFT SDTGLEYVSHRLPPLPPQIPGAQ GVGKLWFDGIATGEFGEHLET LSCHNRVARESEESIAVGTVKH EGNIKYVNDVRNITKKNVRAV CTLRASSLPVFFSPPHNPARK GLYGEHPSLWQSLESCHLTG PGAGNK/RGLGWRWFQMPNALS SFLSTGVQQRDISRFLEVRESGD
21971	52339	A	22099	729	896	

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21972	52340	A	22100	1	2672	MAYKQGFLKVMVHFRKAEVT GKNHTSVHEGYTLISPAQVLT ISCKKSILLQEQVSKDVCVDFT QEEWYLLDPAQKILYRDVILEN YSNLVSVGYCITKPEVIFK/ES KGEEPWVLEKGIPQAQCPQK RKWKV/EMNVVREQPRKMKM TIFGEPPITNTKTVSVENGDRG SKTFNLGTDVPSLIKLSL*NM*L ISEMNLKNISGLIITKKNCSSRK PDEFNVCEKLLDIRHEKIPIGE KSYKYDQKRNAINYHQDLSQP SFGQSFEYSKNGQGFHDEAAFF TNKRSQIGETVCKYNECGRTFI ESLKLNISQRPHEMEPYGCSIC GKSFCMNLRFHQALTKDNP YEYNEYGEIFCDNSAFIHHQAGY TRKILREYKVSDDKTWEKSALLK HQIVHMGGSYDYNENGSNFS KKSHTLQLRRAHTGEKTFECGE CGKTFWEKSNLTQHQRTHTGE KPL*CTECGAKFCQKPHLTNH QRTHTGEKPYECKQCGKTFV KSNLTEHQRTHTGEKPYECNA CGKSFCRSALTVHQRTHTGE KPFICNECGKSFCVKSNIIVHQR THTGEKPYKCNCGKTFCEKSA LTKHQRTHTGEKPYECNACGK TFSQRSVLTKYQFIHTRVKAL* TS*MLEAFIHL/SKLVIQFQKRSS EKAKECQKFVE/KTSCCLNM*KL SRKIKTFF*KICKLTVKNKGKNK
21973	52341	A	22101	1	2817	



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21974	52342	A	22102	474	2766	NQTALYNQAQLLHGSRFANMS AEGYQYRALYDYKKEREEDID LHLGDILTVNKGSLVALGFS QEARPEEIGWLNQYNETTG DFPGTYVEYIGRKKISPTPKPR PPRPLPVAPGSSKTEADVEQQA LTLPLDLAEQFAPPDIAPLLK VEAIEKKGLECSLTLYRTQSS AELRQLLDCDTPSVDELMIDV VLADAFKRYLLDLNPNVIPA YSEMISLAPEVQSSEYIQLKK LIRSPSIPHQYWLTLQYLLKH KLSQTSSKNLLNARVLSEIFSP LFRFSAASSDNTENLIKVIEL TEWNERQPAPALPPKPPKPTT ANNMNNMNSLQNAEWYWG DISREEVNEKLKRDSDGTF RDASTKMHGDYTLTRKGGNN KLKIFHRDGGYGFSDPLTFSS VELINHYRNESLAQYNPKLDV LLYPVSKYQQDQVVKEDNIE VGKKLHEYNTQFQEKSEYDR LYEYTRTSQEIQMKRPAIEAF NETIKIFEQCQTQERYSKGNY HLEKFKP*RAKEKEIQRMHNY DKLKSRISEIHDRRRLEEDLKK QAAEYREIDKRMNSIKPDLIQL RKTRDQYLMWLTQKQVGRQKK LNEWLGNENTEDHYSLEVDD EDLPHHDEKTWECLGSS/RTRN QSLKNLFARGSRDGTFLVRESS KQGCYACSVVVDGEVHKCVI
21975	52343	A	22103	3	392	
21976	52344	A	22104	168	404	

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21977	52345	A	22105	49	1760	YQSPA WQSHWHQKLQVRKEN MAKRVAIVGAGVSGLASIKCCL EEGLEPTCFERSDDLGGIWRFT EHVEEGRASLYKSVVNSCKE MSCYSDFPFPEYPNYVPNSQF LEYLKMVYANHFDDLKHQFKT KVCSVTKCSDSAVSQWEVVT MHEEKQESAIFDAVMVCTGFL TNPYLPDLSFPGINAFKGGYFHS RQYKHPDIFKDKRVLVIGMGNS GTDIAVEASHLAEKVFLLSTTGG GWVISRIFDSGYPWDMVFMTR FQNMRLNSLPTPIVTLMERKI NNWLNHANYGLIPEDRTQLKE FVLNDELPGRIITGKVFIRPSIKE VKENS VIFNNTSKEEPIDIIVFAT GYTFAPFLDES VVKVEDGQA SLYKYIFPAHLQKPTLAIIGLH/ IKPLGLP*LPTGETQVRWAVSG S*KVLTRLPPSVMIIEINARKE NKPSWFGLCYCKALQSDYITYI DELLTYINTKPNL/FSLWLLTDP TSGLWTVFFGPA/SPYQFRLTG PGKMKGGAQEIALHGPQWDP NISRVHKSVRSCYKFSIFPGK FFLKVFSFPGFGLWLFLLIFPYK
21978	52346	A	22106	262	969	EWSSVRRSLVEKRALRRPHQC LCFRMKTILSNQTVDIPEINVDI TLKGRTGIREGPPETGLR/RDFN/ HINVELSLLWKEKKRGSRVDK/ WWGNQKRNWPTRSDFVSHV QNMIKGLHWGFRQG*GPV YAHFPHQPLLRSKNGVSWLKIR KFLWGEKYTRRVSG*RPGLL VSVSQGPRKDEINPLKANDIEL VSK/SSAGF*FQQAITS*KTRNI RKFLADGIFCLLEKGLFRQA
21979	52347	B	22107	211	457	
21980	52348	A	22108	1	159	KEAENQCLDISSPGMSGHRQGH DSLEHDELREIFNDLSSSEDED ETQHQDEK*LDISSPGMSGHRQ GHDSEHDELREIFNDLSSSEDED EDETQHQDEK
21981	52349	C	22109	167	367	

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21982	52350	A	22110	754	1950	VKGKDDAPHELGE/SQFILRLPP VEYASTVRRVQSGHVNLDRL TIELHPDGRHGI/VRVDRVPLAS KLVDALPCVMEEPENLLKKPF SKTAIIGQMLVSTVDGDLFPV EESPCLALDPKAS/KKKDKDKKE KKFIWNHGITLPLKNVRKRRF RKTAKKEIYVNLDPV*KKELKR VLEVPDAVEAVSTRWGIIKPKV ETKGAEANQGLDISSPGMSGH R/QGHVDSLEHDELREIFNDLSSS SEDEDETQHDEEDINIIDEED LERQLQDKLNESEDEHQENEG TNQLVMGIQKQIDNMGKGL/QE TQDRAKVRQEDLIMKVGNLGS PRTDFQAVLGMSFNQREDREK EQLUSSLQEELESLLREVKKNLN M FNFQSFRLVQHLGKFFGLLLL GYLRPCSS
21983	52351	B	22111	227	355	
21984	52352	A	22112	121	486	WGPALCIGGYLASFLASVHLM LP LR*GEMLSF*GLSFSFRFPFKE VRLVPGRHDI AFVEFDNEVQAG AARDALQGFKITLSPLKVSPP L GAFLEPCVSEWSPHSIVRVCQ TLHLALLGRN
21985	52353	B	22113	8	165	
21986	52354	A	22114	1	218	
21987	52355	A	22115	566	1412	TLHSMVVPETRPNHTIYN/NLN EKIKKDELKKSLLRPSFF/SSLG QILGYSWGIHGRP*RMEGARPF SIFKEVSSGTNALR/SMQGFPFY DKPMRIPVLPRTRLQDIHLPRIE RAPFIGSRDPKAGERGRPKSQ DPGPPKEGLCKGGGSHPRGGG LSRGPQPGHCPMT/KAPRIMH HMPGQPLTAAPLDMIPPG/L APGQIPPGVAMPPIQQLMPGQMP PAQVPLWRNPPNHLFLTNLP EETNELMLSHAFSNQVPPGFKE GPVWVPRAGNEHRPSVEV

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21988	52356	A	22116	2	1176	FGEISTFVAVRGPPRRCPDAD PRAPGLALPGRLLVSNRRTHS RESRAPPHLLGARAGMAPPQ VLA\FGLLLAAATATFAAAQEE CVCENYK\LA VNCFCF*INRQC QICTSVGAQNTVICSKLGCQMF W*MKAEMNGSKLGRRAKPEG GLQ\NNDGLYDPDCDESGLFKA KQCNG\TSTC\WCVNTAGVRRRT HKDTEVTCSEVRVYWHIELKH KAREKPY\DSKS\LR* LQKEITT RYTLGSKFLSRVFWYENNVTI\ DLFQNFSSKKLRNDVDIADVAY Y\FEKDVK\GESLFH\SKKMDLT VNGEQLDLDLLIPGQTL\IYNVD EKAP*/DFSMQGLK\AGVIAVIV VVVITSCCWKLLVLVISQKGRE WQKYEKAIEKGDGCRCHRELQ
21989	52357	A	22117	3	257	AKALQWPLGRGGGGTTPRGRSP PGPH*SERGAVQPRSLPRQAA* RVPSGPADGQ*DGHGAAADPGS RQRCKPWSEADLHSECYSS
21990	52358	A	22118	1467	1748	SEYNCCIEIGCPQPSWGPWGRG\ TDVRQQQVGEEVHG/ECGGG SQG*RPG**AGSPAP*PGTWGT AQQGPAAVLDPLRV*GGGIERH PLHSGVL
21991	52359	B	22119	1	1461	
21992	52360	A	22120	29	417	

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21993	52361	A	22121	616	1671	TATCKPWSMRTTISSSQPKLT NSVKLPSPAKCISVSRIGGFLVS LTSRMKLRTLICKSKLLPSGGV RGLAGSGVKLQFTTFSVTALK AACLELFTSPGGFMVLLASEVK LQTFAGSDSLGQGRRAQRRP GPGVSAVGASGQRAPESENERP AEEPTAPMPSSAPRGTEPALR RPSSADRPLAPGAGRAPGAMAS PSGSSKATGKPRGRDGRPRREE DDVTPEEKRLRLLEEAGSQPD DGEDAPRPGRKETGTQTGGDG RGAARAALLAVGGIRAPLPSLG VAPGC/PMKPPRRHPGATPR/P GQGGSDAAHGEEGCPCCSSAV ATCLGAGLLP/PGRGASSPSSGC ALPSSNSRSLFSSGVTSSSSLLG RPSLPRGLPVALELPEGLAMAP GALPAPGASGLS AELGRLSAGS VGPRGA/G*ASGRAWAPRAAR CSLAPSAG/PRAHRGHAGWPWA LSSP/GPGSSRCPLPRRSAASLL KPAR/AINPPGEVNNRHAALR AVTLTVKVCSTPEPARPRTTPE GRSFEHIRRVRFILEVSETKNP PILDTLHLALGGSFTLFVNFCG WDELI VVLIDQGLHVAV
21994	52362	A	22122	892	1931	CTWNNENQRMIEIVWEVFLFLQA NFIVCISAQQNSPKIHEGWWAY KEVVQGVNFVPVPSFWGLVNSA WNLCVSGKRQSPVNIETSHMIF DPFLTPLRINTGGRKVSGMTYN TGRHVLRLDKHLVNISSGGPM TYSHRLEEIRLHFGSEDSQGEH LLNGQAFSGEVQLIHYNHELVT NVTEAAKSPNGLVVVSIFIKVS DSSNPFLNRMUNRDFTTRN*H FKNDGIFYRGL*YRGELLFQG TSSFITYDGVDLFPPTPGY/SRT ASWIIIMNKPV*YNPGCKMHSRL LLSQEP AISRSFLMSDNFRPV QPLNNRCIRTNINFSLQKDKDCP NNRAQKLQYRVNWEWLLK
21995	52363	A	22123	17	417	
21996	52364	A	22124	63	449	CHPALLGPTGHGAWPRHRAPD TLRASAGGRDP*GRRSAPA*ER QP*PPVYACAGSQYD*TALESSCL RRSVRTSTDTRSLLDKSNYSVF LCFLQLAGRRYFAMWTRPEFFL ARDPRSLSWGLEWRPLSL
21997	52365	B	22125	1	1131	

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21998	52366	A	22126	359	548	
21999	52367	A	22127	755	1031	TRGVLEHLMALGKGTLDKPSGP AP*NHPEVSHAASTQEAAGPP AGRPGHGSGCLALPASSTSLP GLRQDIDLLLQLLWREQEVFH DVIQLL
22000	52368	A	22128	1	277	
22001	52369	A	22129	1	933	
22002	52370	A	22130	339	863	PSPVPARPVCPSSAPISMPPCP WREAADLRPEAPGHRDGED VGFLSSGQLSGLCSKRLQPTR AALTLPASVANKIK/HFLKNNPE HVGKVGVRTRGCNGLSYTLE YTKTKGDSDEEVIQDGVRFIE K/KAKLTLL*TEM DYVEDKLSK GVGVITPNIKGTCCGESFNI
22003	52371	A	22131	16	419	QIQRHPWP/SRSYITNVLGRKVV YLPSTFTYAKYIVQVDGKIGLF RGLSPLMMSNALYTATRCFMK KDLPPDEIEQVSNKDDMTTSLN KVANDTSYEMMMHCVSRMLP HPLHVISMRCMDQIVGREAKYS GVLSSIG
22004	52372	A	22132	3	441	RSYTKFVMGIAVSMLTYPFLLV GDLMAVNNGCLQAGLPPYSPV FKSWIHCWKYLSVQ/GASTGRR RPFLFFATFS*NGFVDASLHAK GQLFRGSS/CFSGAGCHQDHALP WSNLNHLKNTVSTWPPWVRPD HLGTPARRLQPNNNQM
22005	52373	A	22133	1	1232	MAGAGAGAGARGGAAAGVEA RARDPPPAHRAHPRHPRPAAQP SARRMDGSGGLGSGDNAPTT EALFVALGAGVTALSHPLLYV KLLIQVGHEPMPPTLTGNTVLGR KVLTYLPSFTYAKYIGQRDGR GLVPRLSPLMSNALSTVTRGS MKKVFPPDEIEQVSNKDDYEDF P*RKLLKETS YEMMMQCVSRM L/AHPLHVISMRCMVQFVGREA KYSGLVSSIGKIFKEEGLGFFV GLIPHLLGDVVFLWGCNLLAHF INAYLVDDSVSDTPGGIGKRPE SRFPFSQALALRSYTKFVMGIA VSMLTYPFLLVGDLMAVNNG LQAGVPPYSPVFKSWIHCWKY LSVQGOQLFRGSS/CFSGAGCHQD HALPWSNLNHLKNTVSTWPP WVRPDHLGTTARRFPQNNNQ

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22006	52374	A	22134	3	1156	PRHPRPAAQPSARRMDGGSGG LGSGDNAPTTEALFVALGAGV TALSHPLLYYKLLIQVGHEPMP PTLGTNVLGRKVLVLPFFTYA KYIVQVDGKIGLFRGLSPRLMS NALSTVTRGSMKKVFPDEIEQ VSNKDDMKTSLLKKVVKETSYE MMMQCVRMLAHLHVISM CMVQFVGREAKYSGVLSSIGKI FKEEGLLGFFVGLIPIHLLGDV VFLWG/CNLLAHFANAYLVDD SFSQALAIRSYTKFVVGIAVS MLTYPELLVGDLMAVNCGAA SWGSPYPVPFKSWIHCWKYL SVQQLFRGSS/CFSAGC/HQDH GFALGVN*NHLKNTVSTWPPW VRPDHLGTARRLQPNNNQMC SSPAG/FQFHICHVS/VQMWG
22007	52375	A	22135	2	425	
22008	52376	A	22136	2	430	
22009	52377	A	22137	2	406	
22010	52378	A	22138	1	297	
22011	52379	A	22139	1	111	
22012	52380	A	22140	1	398	
22013	52381	A	22141	1	409	
22014	52382	A	22142	500	1234	GPNCRPPSCSAVEGAWPRPQGA GARAALALSQKLELGGVGLVQ VQCPSLAPSSSSILFCLLPHP PHRCLQENTTCLLGVGVLLQ SPFPLKTDHSSLPALAPTQSQA ALWGFADFGFMFESSPGGNLG WEPDIKLTDEMVMIMGGKMEA TPFKWFMEMCVRGYLAVRPY MDVVVSLVTIMLDTGLPCFRG/ QIKFLKHFSPNMTAREA*NFIM KVIQSCFLSNRSRTYNNMIQVYQ NDIPY
22015	52383	A	22143	2	6378	SAGPAGPLQVQKLLCMCPVDF HGIFQLDERRRDAVIALGIFLIES DLQHKDCVGPYLLRLKGLPK VYVVEESTARKGRGALPVAES FSFCLVTLLSDVAYRDPRLDEI LEVLLQVLHVLLGMCQALEIQ DKEYLCKYAIPLIGISRAFGRY SNMEESLLSKLFPKIPPHSLRVL EELEGVRRRSFNDRSILPSNLL TVQCEGTLLKRTSSVSSISQVSP ERGMPPSPSGSAFHYFEASC LPDGTALEPE

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22016	52384	A	22144	3	398	IHKAAAGVPPQPDAGCPGTGEQ QGGQRCGQ*AGP/AQAPC*SRA GTR/PTCFV/LTSLRSWYRVDSP NKL MNPLVAGFFG/CHCGSGQC LRKCSSARDRAPDARPLDLAQ GRCHCHNKA CLHASETGVGTT SVL
22017	52385	A	22145	344	498	
22018	52386	A	22146	344	406	FLADQEDPLDPRAGCR*ETTAP R/PSKGPSSTEPLHASTAVPPCQ GELGCSRASPA SEK/ DLAGRLIS PCNSDTVSPGLGGFMTCAQSLI SRRPGGPIGPWWLQGPPLG
22019	52387	A	22147	3	2058	LSGSGAPPPGVGAQAAAAEE EEREVVRVRVKYRLAVSRPSRR GKFRSFVDPQITSLDVLQHILI RAFDLSG*VGRCWGLLRDRRL GQEVYLSLLSDWDLSTAFATAS KPYLQLRVDIRPSEDSEYSVPPG AISP KDVIGSDVLLAEKRSSLTT AALPFTQSILTVFSGTLGTQQ VLSWSYGEDVKPFKPLSDAEF HTYLNHEGQLSRPEELRLRIYH GGVEPSLRKVSILSHLLVYPDG LTGRERMDYMKRKSREYEQLK SEWAQRANPEDELFIRSTVLKD VLRTDRAHPYYAGPEDGPHLR ALHDLTTTAYVTHPQVSYCQG MSDLASPIAVMDHEGHAFVC FCGIMKRLAANFHPDGRAMAT KFAHLKLLLRHAIDPDFYQYLQ EAGADDLFFCYRWLLELKREF AFDDALRMLLEVTVSSLPDPPE HEVELVGPSPQVADTFGDHR GWVPVRQRHMLRPAGGGGSTF EDAVDHLATASQGGPGGGRLL RQASLDGLQQLRDNMGSRDDP LVQLPHPAALISSK*GLSEPLN YDPDLLSSFSHPDSPSSSSPPSTQ EASPTGDMVAGSPMLMQEVGSP KDPGKSLPPVPPMGLPPQEFQ RGNPFMLFLCLAILLEHRDHIM RNLGDYNELAMHFDRLVRKHH LGRVLRARRALFADYQLQSEVW
22020	52388	A	22148	130	387	
22021	52389	A	22149	1	279	



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22022	52390	A	22150	105	499	DMSDTSSESGAGLTRFQAEASEK DSSMMQTLT/T/PEAREAPA TQASSTQLTDTQVLA AENKSL AADTKKQADPQAVTMPATET KKVSHVADTKVNTKAQETAAA PSQAPADEPEPESAAAQSQENQ DTR
22023	52391	A	22151	285	984	TSLSCYFSRTKDSPLGLLMVL LSIIFMNGNRSSEAVIWEVLRKL GLRPGYDWALSALAVRVVLW QERTVLGLHQSGGLVERVGCW TG*RAQGSDLGG*WVNGPELS APSLVSWASMEIPSCAGNLF ILEMPLPTSGKCHSLE*YLFYIF SFSSRLIHHSFLGDDVKKLITDEF VKQKYL DYARVPNSNPPEYEFF WGLRSYYETSKMKVLKFGCKV QKDKPKEWAAQYRE
22024	52392	A	22152	259	578	
22025	52393	A	22153	296	2242	NMSDTSSESGAGLTRFQAEASE KDSSMMQTLT/TVTONVEVPE TPKASKAL/EVSEDVKVSKASG VSKATEVSKTPEAREAPATQAS SYLLSLTD/TQVLA AENKSLAA *HQGNRMVDPQAC*QLPATET KKVSHVADYGRFNYKGFRRRL LAPS/QAPADEPEPESAAAQFSG RFRVFGPKVKAKKARKVKHLD GEKDGSSDQSQASGTTGGRRV SKALMASMARRASRGPIAFWA RRASRTRLAA/WARRAFALPLEI TLKPRRAKGLRR/RVAKFQ/SSQ EPEAPPPRG/LALLQGRANDLV KYLAKDQTKIPKRSMDMLKDII KEYTDVYPEINERAGYSLEKVF GIQLKEIDKNDHLYILLSTLEPT DAGILGTTKDSPLGLLMVLLS IIFMNGNRS/SEAVIWEVLRKL GLRP/GIHSLLGDVK/KLITDE FVKQKYLGLCQKVPNSNPPEY EFLGACALY**EPAKMKSPQS FACK/VYQKEGSPRNWGSSVPP REGKGRMEADFECKLR/LTLE AKAKGPRLEAPNGPLGLSGGE MLAGP/CNWDEA/DIGNPWAK ARIPRREQKLKAKAPKRSASA/S TGA/STSTNNAS/ASA/STSGGF /SAAASL/TATLHIWGSSAGLWL ELGCQHQARSAGAC/GVSYK

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22026	52394	A	22154	1	487	EFKQPSFRRSIW/P/YFLLTQA/VRTGNPAKFNQVLDDQFGEKFAQDGTYTLLIIRLRHNVIKTGVRMISLSYSRISLADIAQKLQDSDPEDAEFIVAKAIRDGVIEASINHEKGYVQSKEMIDIYSTREPQLAFHQEGKDSSVYSFREWGTGTGMSWLVCFLKRL
22027	52395	A	22155	2	429	
22028	52396	A	22156	1	328	GTRFQADGTYTLIIRLRHNVIKTGVRMISLSYSRISLADIAQKLQDSDPEDADFIKAVGLVQEPQ
22029	52397	A	22157	138	2206	AVTPGAMKQEGSARRRGADKAKPPPGGGGEQPPAPAPQDVE MKEEAAATGGGSTGEADGKTA AAAA*SNFPAKSWDYSHLWKD IKEHRETS*RKAVSGKEPRFVLR ALRMLPSTSRRLNHYVLYKAV/ QGAFFTSNNATRDFFLPLERA HGTQEADLLFRPTGKAAGTPLLPEVEAYLQLLVFIFMMSKRYKEAQKISDDLQKISTQNRRA L/DLVAAKCYYYHARVYEF/D KL/DVVRISLHGRLRTATLRHD ADGQATLLNLLLRNYLAHYKL VPTSLRSLVSKSVFP/EEQAQQP NEWGQVTSYLHQGRKAIQLE YSEARRTMTNALRKAPQHTAV GFKQTVHKLIVVELLLGEIPDR LQFRQPSLKRSLMPYFLLTQAV RTGNLPRFTQVLDDQFGEKFAQ DGTYTLLIIRLRHNVIKTGVRMISLSYSRISLADIAQKLQDSDPEDAEFIVAKAIRDGVIEASINHEK AYYQSKEMIDIYSTRDPLAL HQRISECLDIHNMVWSRPMRV PPSKSYKQGSWSLQRNGRERR NKQDLEFPKEMAEEDDDSFPL KLGWGGVGRKVGTRQLCPP WGYPLPQGTCPFFSPHTAHL AFRGRGWGCWEPATPDLPPGL LPSRVTLVQPGRRVGRQPPRG RVLASSVADRRGRISLCTPFRE WGTRTWDVYGLLCFLKRL
22030	52398	A	22158	86	348	

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22031	52399	A	22159	3	356	LPLSMDVRAPPVMAAVDQAL KEFRGIDILINCSSSCGLPFCR AAGNFLCPAGALSFNAFKVTM DIDTSGTFNVSRVLYEKFFRDH GGVIINITATLGNRGQALQVHA GSAKAAVD
22032	52400	A	22160	3	255	GPWSCHAGA*GPGATQVSEDQ GLREPHGSRDLCSLG*KH*GAPI CAWPMWWDGPPAAHKVVRPSVS APPVICINTLCYNLASAFS
22033	52401	A	22161	3	360	
22034	52402	A	22162	240	1356	AGNPSGIPGTRVHIRGQRGGFAS TWSGRGAGSTPLQNSPPRQPHR EKEFLRQVLEGGSHGTGVRPSA ARLVNPNPHSLVSPDLL*LVSR TAPHFLAARKLAGATGRRCLPL SMDVRAPPVMAAVDQALKEF GRIDILINCESVLEVGGSQAP AAPAVSHSAGAAAGNFLCPAGA LSFNAFKTVMIDTSGTFNVSR VLYEKFFRDHGGVIVNITATLG NRGQALQVHAGSAKAAVDAM TRHLAVEWGPQNIRVNSLAPGP ISGTEGLRRLDASQGMWSWGRG EGAGSWGSRGLSLLPS/GGPQ ASLSTKVTASPLQRLGNKTEIA IISVLYLASPLASYVTGAVLVA DGGAWLTFPNGVKGLPDFASF
22035	52403	B	22163	214	1647	

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22036	52404	A	22164	1765	1910	LSHPHSRTTPNRTPRTRTRIPQRP AVMYSPLCLTQDEFHPFIEALLP HVRAFAFYTWFNLRARKRKYFK KHEKRMSKEEERAVKDELLSE KPEVKQKWASRLAKLRKDIR PEYREDFVLTVTGKKPPCCVLS NPDQKGMRRIDCLRQADKV WRLDLVMVILFKGIP\LESTDGE RLVKSPQCSNPGLCVQPHHIGV SVKELDLYLA/YFVHAGRISSQS ESP\SQPSDADIKQPENGTFGA SRDSFVT\SGVF\SVT*A*LRVSQ TPIAAGTGPNFSLSDLESSYY SMSPGAMRRSLPSTSSSTSKRL KSVEDEMDSPGIEEPFYTGQAR SPGKWTVSPSGLSVSVSQGMPS PTTLKKSEKSGFQQPLPFRPPS LGNGFHTAFTDLFIYQGQPSKF HIATPSILHFPRHSPFFQPGPY FSHPAIRYHPQETLKEFVQLVCP DAGQQAGQPNSSQGVHNPF LPTPMLPPPPPPMARPVLPVP DTKPPTTSTEGGAASPTSPITRS /PGRTRPQQPFL/SYGPP*PHFLR AGIHHL
22037	52405	A	22165	63	250	
22038	52406	A	22166	1	817	SRLGHPRKDMDDDTKATLISY MSLSFRHGYCFSEDPVHTEL IQSGRGGGRGDPDPGNALE*LA HLGP/SSHLGP*AQDGLVDAAG RASPLAGTEGAGRFSLHQP/IGP RGPPPE*GAAGERFPGVAG/GPR GAHGLPCPEQLQLQPPPP*MP KTGSTFVAHFPSPLAQGHSPPG GGAGWCSCGSPDRPPLLGVS HGELLNPNSPA YEVGAG/RPAT GSSGTRAGPPSPSHAPGRTPSV SLCD/RHQCLRASPTGSIGSLPA HWREGLAGPLMD

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22039	52407	A	22167	240	1790	TAKNSYLESCPLHMENSIHQWP RQFPFVRRQGADAACGAGSQ ALVPSHSDTDGVLPGAELG GGPARVP/GAAGGRGPATS*A GP*LSL*APLCF/SGLSGNGKQL LGAAGRSSSHAQMHELHPAQ* HE*ATDHTGGQGP/G*KQQNG PP/GPDNDLPAPESTPPTWNE LDPDAIPLAHVPVRQRRPTGPAGP PGQTGPAGPAGPPGSKGDRGQT GEKGPAGPPGLLGPAGPRGLPG EMGRGPAGPPGAGNPGSPN SPQALYSLQPPTDKDNG/ITQG WPLPSWTQCW/SGVPGRGP PPGPPGPRGPAGPPGTGSQGLA GERGTGVPAG/AGGAAERGP DPGRASPHPGAHWDPRSPGLP RGRFWPGCCPESQDDEGWH PTRWGPCCPAWARPWTEERG/S RPAAGS/RGVSDISETPGRPIYP DKSQSAVSVCARSRLRAQLRP GAEQMNDCKGITGTQDIAV SFASEHNINQWVSKHLQLSPV TPATQAPLKVRVPQASTLV
22040	52408	A	22168	104	271	PSCTNPYGGGRCDSSVVPNQCF TKHMQSRLLG*GEKALEGGGG RGVKS LVTKRDF
22041	52409	A	22169	494	1074	KGTTLCQKHWWGGGYLHWGHF EMMRLTINRSMDPKNMFATWR VPSFPQ/PITRKS VGHM/GGGK GAI*HYLTP/VKAGRLVEMG GRCEFARS AKVSLTQVALRSCP FASKRL*ACGTPREGCEQDQEE RERQQPRTPTWTH*AE*PTAQHG WAYGKVPPEHMTLTPOGEILG ARFYMPKTCVVSVGDILYIGY
22042	52410	A	22170	61	329	NQRS GKKSQPW*STITPPSLIWL SNSSTLSSSKMGQSYSSS*PSY NCSVS RMFGSNMVPAAATASGA SLTCPLLWLSMTHFRKVGW A
22043	52411	A	22171	21	444	STAQSISRSDLHYFLALLVYYW AADARFLGRIPLWLIHKELEKS HTEYCLVGSSQYTPLVQVFRSN TLVSVLSTKTI*NQRS GKKSQP W*STITPPSLIWL SNSITLSSSK MGQSYSSS*PSYNCSSRAKSPTL TVFQS

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22044	52412	A	22172	163	1056	LEKSDHRISWSPGKTA\SPKSMPE RWHR*WQILKDMGITNEYEP RVIN\QMLEFAFRYVTTL\DD AKIYSSHA\KATVD\ADDVPIG QSRCRAGSSLFTSPPPKRF/L.LL RYLARQKKSNPFCPLIKPY\SGP RLPPDRYCLTAP\NYRLKSFTE KGHSTSAGKELTVP\RLSVGFRL LSRTKVLPTLGAHPTPQ\TMSVF NLK*GTPHVPSPGQRFSTRCPT SVQS\PAVKSFQFFGNLSQFQNV L\NPIH*IGSQKHSYYPLNMMS SIQNTA\NESSNALKRKREDDDD DG\DDDDDDYDNL
22045	52413	A	22173	215	344	
22046	52414	A	22174	302	1330	ACEQKRGGEGGNKNRERRKGE KAGRRQGRTRQPCSRMRRTKQ VEKNDDDDQKIEQDGIKPEDKA HKAAATKIQASFRGHITRKKLKG EKKDDVQA\AEAEA\NKKDEAP \VFADGVEKKGEG\TTTARSSPQ PLAPKP\DEPGKAGET\SIEEKM GEG*LLATEQGSPPRLLAS\SEE KAGSAETESATKASTDNSSSK AEDAPAKVEEPKQADVPA/AFG VFPNPLGALLLAATTPAAEDAA AKATAQPPTETGESSQAEEIE AVDEVTKPKESARQDEGKEEEP EA\DOEHAWNSGEMGFPHPHPP GCLACLSLPSSQLHSEVPSCPAH VCESVLSHPLALFLSVWANI

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22047	52415	A	22175	2	1577	HGFRLLPHPPALRRLLDQRRPK TEDRCGHWDQILDLIIKHLFS MSFIPVAEDSDFPIHNLPGVFS TRGDPRPRIGVAIGDQILDLIIK HLFTGPVLSKHQDVFNQPTLNS FMSLGHAAWKEARVFLQNLL/ SL*SQARLRDDTELKCAFIQA SATMHLPATIGDYTDFYSSRQH ATNVGIMFRDKENALMPNWLH LPVGIYHGRASSVVVSGTPIRRP MGQMKPDDSKPPVYGACKLLD MELEMAFFVGPGRNLGEPPIISK AHEHIFGMVLMNDWSARDIQK WEYVPLGPFLGEEFWGFLSLP WGGCPWDALMPFAVPPNPKAV PQAPCRYLCHDEPYTFDINLSV NLLKGEGMSQAATICKVQILK YMYWTMLQQAHSPTLSNGCN LRPGGPPGLSGTHQAGPEP/EKN FGSMVELSWKGTKPMDLGNQ QTRKFLLDIGDEVIITAMATRD FKWY/CQGGDGYRIGFGQ/CAGK VLPALLPIMRFSLLFWKQRAQS TTFQPCDWGSSPRAVGLVPPFQ
22048	52416	A	22176	3	623	DSRNSILPRRGALLKVNQELA GYTGGDVFSFIKEDFELQNLKQL IFDSVFSASFVGGMVPIGDKP SSIADRFYLGGPISIRGFSMHSI GPQSEG DYLGGEAYWAGGLHL YTPLPFRPGQGGFELFRTHFFL NAGNLCNLNYGEGPKAHYIVK LAECIRWSYGAGIVLR LGNIAR LVELNYCVPMGVQTGDRICDGV QFGAGIRFL

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22049	52417	A	22177	352	2397	GPMSEGIASQGARRRRGIMGLR GLWASRADGRRGETEPEAKQEI LENKDVSFLLKVLIELLVETFTS IHH*GDDVFKAKNLIEVGVVST WCAFPVSSEELVNVPM*NIDTC QGTTCGVVSL*FPFCPSEKSCFY GQNNMTVGNNEGSMVCYRLF TFLYWNLELGTFTL*LHSEKETS YGLSFFKPRPGNFERK*EAQII EYTGLEIKLK*VAYL*KSAEYS VSAFQSFPLGLGENRVAFSLIP KGSYLIQ*VSGNCWHLHCQPLL WGSYHRILAEELRVLIESTWPF G*LNCGTQSQAFCGCTPSRSSA RHGHSVCGQLLVADVPVKVG MLGENNHLFLKY*SMNG*FA/L YFPLDLFSCFL*ESFPLTAPSLEG SRLTLETMYLLCQGGFGLFRT HFFLNAGNLCNLNYGKTCIAIQE TIVVQLFSCLKAQYTKIRLGNIA RLELNYCVPMGVQTDGRYVVG IIFHNHPLSSNIFLFTWTFASGD TAGAARLLRLPTDDRAFRDGG GCSHNRQLFPSTPLLSTQSPS WKGCSHAGCMHVCLGAQLPG LGAQLGHGSESQVERLLACGG RWGARRQGCCWHDLPKAPHA GCFLAGEKKVGGDQEPCTKTA AVREGESVGCTAEGGCLGLSG GCQGWLAPGLVELRSAARQE GSRRRRKRRRHLLRVHPQKV
22050	52418	A	22178	1	1017	
22051	52419	A	22179	1	435	
22052	52420	A	22180	1	1353	
22053	52421	A	22181	1	834	
22054	52422	A	22182	2	2675	



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22055	52423	A	22183	72	1339	AMRGANAWAPLCLLLAAATQ LSRQQSPERPVTCTCGGII.TGESG FIGSEGFPGVWPPESKCTWKIT VPEGKVVVLNFRFIDLESNLC RYDFVDVYNGHANGQRIGRFC GTRPGALVSSGNKMMVQMIS DANTAGNGFAMFSAEPNER GDQYCGGLLDRPSGSFKTPN.W PDRDYPAGVTCVWHIVAPKNQ LIELKFEKFDVERDNYCRYDYV AVFNGGEVNDARRIGKYCGDS PPAPIVSERNELLIQFLSDLSLA DGFHGHYIFRPKKLPTTTEQPVA TTTTFPVTTGLKPTVALCQQKCR RTGTLEGNYCSSDFVLAGTVIT TITRDGSLHATVSIINIKENL AIQQAGKNMSARLTVVCKQCP LLRIRGLNYIIMGPSRVKDGAR QNSWPNSFIMMFQTRNQKLLG CP*KISQC
22056	52424	A	22184	49	170	HTVGDGRLLRRP*REFGASFL* CFLEARFGLKNWGHGCWRH
22057	52425	B	22185	597	651	
22058	52426	A	22186	1	791	
22059	52427	A	22187	2	943	TGACAEPRVGLLFRLLKGRCRG GRNMELGSCLYGFREAAEEEG EPEVKKRRLLCVEFASVASCDA AVAQCFLAENDWEMERALNS YFEPPEAESALERRPETISEPKT YVDLTNEETDSTTSKISPEDT QQENGSMFSLAITWEYLMGLAD LKQSVQRRARGVCSYLAL*VLS LLFNSNVSVYVTERMNQLKMV LKKMQEAPESATVIFAGDTNLR DREVSDKVSMLFEDRLLLRLLI *VPFCQYTWDQMNSNLGITA ACKLRDFRIFRAAAEEGHIIPR SLDLLGI.EKLDGCRFPSDHWGL LCNLDIIL
22060	52428	A	22188	277	534	

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22061	52429	A	22189	29	1305	VGVVLRVECLPCGPAPMSVPA FIDISEEDQAAELRAYLKS(KGA) EISEENSEGGLHVDLAQIIEACD VCLKEDDKDAVESVMNSVGIPY SWILAEQDKQEAEDLKALCEKA GSKFPRR*TAPELETCSFLSNLF HGMG*GILPVKIHVSICSLAIKVA AASCGAIQYHPQLEPGIKFRK WDFLNWNLTGKKSTPLKTT FMKALVECKKSDAASKGMVE LLGSYPENASQARVDAHRIC IVRALKDPNAFLDFHLLTLKP VKFFGKASLFHCSFLT(KFVSA* MGHHMSRFYPD*LRTFH*IPLG PVTMDPGIWP(KMLLF/TFMGN GQ*KNKEISF*PQCQEQPSRLGA DADVESHVIDAIVRN*KWVYC QNWSRPRRKVVVSHSTHRTFG KIQQWQTTVLTHLNAWKQNL NKVKNSLSLF
22062	52430	A	22190	194	413	
22063	52431	A	22191	3	160	EVKQFQWVLSLGSFSLPKSSSF RCGAGGAVHWSTALFLLGAAS ASSYHQRPG
22064	52432	A	22192	268	473	
22065	52433	C	22193	93	500	
22066	52434	A	22194	2	398	FFLRRLSLSPRPDCGLQWRNL GSLQAPLPGFTPFSCSLPSSWD YRRPPRPANFLYF**RRGFLL ARMVSIS*PHDPPASASQAGIT GVSHRARPETYNFCSFIISLPV EPEARKMTKNSDIGEIW
22067	52435	A	22195	972	2180	PRHCCASASSAPAPSRPASSSP PAACPW*GSLGPAATPATWR R
22068	52436	A	22196	2271	3074	RDPSTPTVVRSLGVPLLSRRRFK MAPSVAATKLAERNETMVQTC WTETQSSSDGSTPRRVRISLAL WRPSLFFSMADTSLVLNFRPVS SSGVIRPSNKRPSLAILTRISRTS SPKYMPLTIFSNCFPLRDRPSI SLSNSVRMSSNDPSPKAPHIS/G IDTHPPLVSFHQINVPQFLHVAS IGASADDQADFTVLVVIATGHH GAHCVIHHSYDVGIIVPSLFDGF VKQFDHICSFHSARFKSLCPGD QDGLIYFGLLARKRKRESHR

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22069	52437	A	22197	1956	2747	FAFSPK*HSLRCPCP1*FSSGLLH EVL*LLPLCW*THGWDPGSRE ANKSPKLHAIRC VVWLEENL WLSNSQSLQTVKN*ESHIN*SC RSNLI/HH*FWNQVK*K*LLNIS GNCFFLRWL/DSVAQAGVY WRDLGSLQPPPGFKRFSCLSLP SSWDYWHLPCLAKFCIFSRDG /GFTIWARLVNLS*SCDLPASGS QSAGITGVSHHTW/LQVYFLK EMRSCYFSQVGFQTPGLKQC SHLKLSSWDYRHIMSPHLA/ISG
22070	52438	C	22198	85	228	
22071	52439	A	22199	2	434	
22072	52440	A	22200	1	1356	
22073	52441	A	22201	146	1909	ILHSLEISALLSLMMLTIGDVIK QLIEAHEQGKDIDLNKVKTKTA AKYGLSAQRLVDIIA/SVPPQY RKVLMPKLKAEPIKTA/SGIVV VAVMCKPHRCPHISFTGNICVY CP/GVGPDSDFEYSTQSYTG/EY PTSMRS/IFRARYDPFLQTKDRI EQ*RQLGHSVDKVEFIVMGGT MALPEEYRDYFIRNLHDALSGH TSNNIYEAVKYSERSLTKCIGITI ETRPDYCMKRHLSDMLTYGCT RLEIGVQSVYEDVARDTNRGH TVKAVCESFHAKDSGFKVVA HMMPDLPNVGLERDIEQ/TEFF ENPAF/RPDLGLKIYPTLVIRGTG LYELWKS/GRYKSYFS**PGLN WVARFLALVPPWTRVYRVQRD IPMPLVSSGVEHGNLRELALAR NEDLRIQCRDVRTREVGIQEI HKVRPYQVELVRRDYVANGG WETFLSYEDPDQDILIGLLR/LR KCSEETFRFELGGVSVIRELH VYGSVVPVSSRDPTKFQHQFGG MLL/MEEAERIS*RRNMGLGKI AVISGVGTR/NYY/GKIGYRLPR PRTMVKMLEIMGHTQSHSFC LPWHEHRRIRISLNTQQRGL
22074	52442	A	22202	1	457	
22075	52443	A	22203	2	297	CVMYRDYPLELFMAQCY/GNIS DLGKGRQMPVHYG/CKERHFV TISSPLATQ/IPQAARGPGYGIM/ SIRVDGNDVFVYNATK/EARR RAVAENQPFLEARPT

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22076	52444	A	22204	3	1446	DWLLAKMAEAIAAARIVWRLN RGLSHAALLLRQLGGSGD*AR SHPPRQQQCSALDDKP/FPFG ASAGVIDKLEFIQ/PNVISGIPYR VM\DPQGQIHQFQARDPHLAEG ERWLKLYKSMTLL*HPWDRIL **VFSGQGRILLT*TNVWLRR GTHVGSARRLGQTRTLVFGQY REAGVLMYRDYPLELFMAQC YGNISDLGGRQMPVNYGCKE RHFVTISSPL\ATQDPSGRWGAA YAATGGANANRVR/VICYFRAR GAAS*GGDAHA/GFNFRCHNL SCPIIFFCRNNGYAISTPTSEQYR GDGIAARGPGYGIMSIRVDGN DVFAVYNATKEARRRAVAENQ PFASHQHDRSRVQAPSP\SDAS*T YRSVDEVNYYWENKGPPLPGF GHYLFSGQGWDEEQQKAWR KQSRRKDPGPVQPS/VMEAFEQ AERK\PKPNP/NLL\FSDVYQNM PAPVRQPPES\LARHFKTYGNH YPWDHFDK
22077	52445	A	22205	2	292	

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22078	52446	A	22206	1	1894	QSLADLLQSQPSITLTSQIWSP A*GFWSWGNSVTTPSK\PATP TRTIAATPIQTLPSQSTAPKRID TPSLEEPSDLEELEQFAKTFKQR RIILGFTQGDAGLAMVKLYGN DFSPTTIFRFEALNLSFKNMCKL KPLLEKWLNDALNLSDDSLSS PSALNSPGIEGLSRRRKKRTSIE TNIRVALEKSFLNQKPTSEEIT MIADQLNMEKEVIRVWFCNRR QKEKRINPPSSGGTSSSPIAIFP SPTSLVATTPLSVTSSAATTLTV SPVLPLTSAAVTNLSVTASTSEA SSASESTTTQTSTPLSSLGTSTQ VMVTASGLQTAAAAALQGAA QLPANASLAAMAAAAGLNPSL MAPSQFAAGGALLSLNPGTLGSG ALSPALMSNSTLATIQALASGG SLPITSLDATGNLVFANAGGAP NIVTAPLFLNPNLSLLTSNPPG GFTIEISNNNSTMVMGTGMRIG TQAIERAPSYIEIFGRMTQNLNS RSRWDFPFTREEALQADKKLN LFTVRKFQNIHRLFCKENKNT FQQLLLEQDSSCGTGFCSMIT YPVMLLSSEQPVQSLSVRQCVI LLDAAVISGGMGAVCLLLTH LCPLCYAGLLSEITDPESFVKDL LYSVP

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22079	52447	A	22207	1	2417	MRVRTSSLPTMLRVQNYARA KAGPEYAFVDSTECSPQWMVS PLKRGITQTNGLDFQKQPVVVG GAISTAQAQAFGLGHLHQVQLA GTSLQAAAQSLNVQSKSNEESG DSQQSPSPSQPSVQAAIPQTQ LMLAGGQITGLTLTPAQQQLLL QQAQAQAQLLAAAVQQHSAS QQHSAAGATISASAAATPMTQIP LSQPIQIAQDLQQLQQLQQNL NLQQFVLVHPTTNLQPA/QFIIS QTPQGQQLLQA/QNLLTQLPR QSQANLLSQSPRI/TLTSQPATP TCTIAATPIQTLPSQSSTPKRIDT PSLEEPSDLLEELQFAKTFKQR RIKLGFTQGDVGLAMGKLYGN DFSQTTISRFEALNLSFKNMCK LKPLLEKWLNDANLSSDSSL SPSALNSPGIEGLSRRRKKRTSI EAINIRVALEKSFLEN/QKPTSEE ITMIADQLNMEKGVIRV/WFCN RRQKEKRNPPSSGG/TSSSPIKA IFPSPSLVATTPSPVTSSATTL TVSPVLPLTSAAVTNLSVTGTS DTTSNNTATVISTAPPASSAVTS PSLSPSPSASASTSEASSASEVTS TTQ/TTSTPLSPLGTSQVMVTA SGLQTA/AQLLPFKGAAQLPAN/ ASLA/VAAAAAGLNPMLMAPS QFAAGGALLSLNPGTLSGALSP ALMSK/STLA/TIQTLASGGSL K*TSLECKLGT/LVICPMREEPPD
22080	52448	A	22208	3	114	
22081	52449	A	22209	1	505	NLGVDDLPGYQDPYSGRTLTK GEVGCFLSHYSIWEVVARGLA RVLVFEDDVRFESNFRGRLERL MEDVEAEKLSWYSYWTLAYA LRLAGARKLLASQPLRRMLPV DEFLLPIMFDQHPNEQYKAHFWP RDLVAFSAQPLLAAPTHYAGD AEWLSDTETSSPWDDDSGR
22082	52450	A	22210	3	626	RAARAAPLLHLLLLGPWLEA AGVAESPLPAEVLAILARNAEH SLPHYLGALERLDYPRARMAL WCATDHNVDNTTEMLQEWLA AEGDDYAAVVWRPEGEPRFYP DEEGPKHWTKERHQFLMELKQ EALTFAARNWGADY/LGATLGL WQDHSVNSLGGCSPGRAGACD VPSSKFADTDNLTNNQTLRL MGQGLPVVAPMLDSQTNV

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22083	52451	A	22211	1	2004	MRAARAAPLLQLLLLGPWLE AAGVAESPLPAVVLAILARNAE HSLPHYLGALERLDYPRARMA LCLQGPAPQPQWDLWLAGFEEE QTGTSEVHWGPTWQGSTTLEA SGHRCATDIHNVNTTEMLQE WLAAGVDDYAAA VWRPEGEP RFYPDEEGPKHWTKERHQLFM ELKQEALTFARNWGADYILFA DTDNILTNNQTLRLLMGQGLPE VAPMLDSQTYYSNFWCGITPQ GYRRTAEYFPTKNRQRRCGL RVPMVHSTFLASLRAEGADQL AFYPPHPNYTWPFDDIIVFAYA CQAAGVSVHVCEHRYGYMN VPVKSHQGLEDERVNFHILILE ALVDGPRMQASAHVTRPSIKRP SKIGFDEVFVISLG/RRPDRRER MLASLWEMEISGRVVDVVG WMLQQQVPFRNLRP*DLLPGL/ YKDPYFGPHS*PRAEVGLSSD HYSIWEEVVSQGAWPRIVLVV *RNDVAPLRTNFGGGLERL/M EIDVEGKRNLSEWKPPFRILPLG RKQVEPLRRETAVEGLPGVLV VAG*LPNWTLA/YALRLAGGP ASLLALQPFAPHCCPVERISLPI HCFDQHPNEASTKAHFWRPD/ LVAFSAQPLLAAPTHYAGDAE WILLRRRHSPWDDDSGRLLISW SGSQKTLRSRLDLTGSSGHSL
22084	52452	A	22212	1	468	ELSHNAKAKVMVASHNEDT/V LFALRRMEELGLHPADHQVYF GQLLGMDQISFPLGQAGYPIL TQIHLFSPHTCRAAGGEVRCPL ALPRVWALRCGNLIPAWDSH WKLLGTLLLELCAQGPHLCDPH VLGPRGLSTFCQGQPTQPEPLG EQWPGWG
22085	52453	A	22213	1	1893	

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22086	52454	A	22214	390	2005	INRDVETACTYILRNTEDEVMLE FVMREWKKSRKLLGQRLFNKL MKMTFYGHFVAGEDQESIQL LRHYRAFGVSAILDYGVEEDLS PEEAHEKEMESCSSAAERDGS TNKRDKQYQAHRAFGDRRNG VISARTYFYANEAKCDSHMETF LRCIEASGRVSDDGFIKLTAL GRPQFLQFSEVLAKWRCFFHQ MAVEQQAGLAAMDTKLEVA VLQESVAKLGIASRAEIEDWFT AETLGVSGTMDLLDWSLSIDSR TKLSKH/V/*VPNAQTGQLEPLL SRFTEEEELQMTMLQRMMDVL AKKATEMGVRLMVDAAEQTYF QPAISRLTLEMQRKFNVEKPLIF NTYQCYLKDAHDNVTLDVDL SPREGWCFGAKPVRGAYLAQE RACAAEIGYEDPINPMYEATNT MYHRCLDYVLEELKHNAKAK VMVASHNEDTVRFALRRMEEL GLHPADHQVYFQQLGMCDQI SFPLGQAGYPVYKYVPYGPVM EVLPYLSIRRALEINSSLMKGTH IRERQLLWLELLRRLRTGNLFH
22087	52455	A	22215	3	303	
22088	52456	A	22216	798	2250	VPRAPOGML*GPRKDAGTPER RAGPPGGRGTADGGGCGALAG SGS/DDPRLCIWTFLVTDQILLP TGPGRPRGSVAAAATGPGVGA LRAPARAQPRGAVDGRPLLQ VLPHRRLEVSLGKSPKECVLW/ RHLLSESEKRPFVEEAERLRVQ HKKDHPDYKYQPRRRKSAKAG HSDSDSGAELGPHPGGGA VYK AEAGLDGHHHGDHTGQTHGP PTPLTPKTELQAGAKPELKL EGRRPVDSGRQNDIFSNVDISEL SSEVMGTMDAFDVHEFDQYLP LGGPAPPEPGQAYGGAYFHAG ASPVWAHKSAPASASPTETGP PRPHIKTEQPSGHHYGDQPRGSP DYGSCSGQSSATPAAPAGPFAG SQGDYGDQASSYYGAYPGYA PGLYQYPCFHSRPRPYASPLL GLALPPAHSPTSHWDQPRRNGS TAQGPKEGVAGALQGAVRSKA GLGAEKPLHSRPHSLDNGCTGC PGSGVSVRRLG



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22089	52457	A	22217	299	1631	LLEPHCGGKCFKRHWFPSCSEA SC\PSAAPQRW*HTG/SPEVPAA PGAQGREPSM/RDGEAVRGGG CMEAGPMGLQCVDKKGQGVH N/RGEARVFLQSQVGAILPRPW PNPAPSEP/VQSPASSTGP*VFP SRPQQASGPA/RRHPGAEPGQ RGDVQQLPRPQTSHPGQDA ALSSAPHWPRL/MASPLQEA PLHPFCGHRSPCPVPWQLSPTD PIQSRPPARGWAPANQGRPSHP RCRGGGAFCGHG/STYQPLT FRLASMVLSIHPKPPKETLFRFP NMVVAAEPGPVAMSQRPRGRC TRFSHTDKAPLDTCTDMNAYT CARRHSSTYSDHITLQGAFACT HTWAQSTCQPPPTPAAKCLDR GQSSGMLHAGCVGWGGGTHV RVDLSSQLNRRVRPHLCMLRC WSSCHRASVSCTHPSLHTTGPV LISARTGADHTWYTAGTY
22090	52458	A	22218	383	762	RHQGNQKRKELSLK/CQKSRQE SPRAENPKWREGKKETSESSV QKAGRAAAQAAGAAASRVPG LSGSNLAPCNKGRLSAREDSN SKLKILSSGRKHTHVIMLKAW GLGRQSLRCRLFDLIPSHKV
22091	52459	A	22219	325	945	QPSLAPKADLSAREGRFQKLV RCRLQYQQQR/RKFAAAFLA FHFSLGSGGILAEAG/KKEKPE KK\VKKSDCGRIGSWVCVAPP SGDCGLGHHGRATRT*\AECKQ \TMKTQRCKIPCNWEGRQFGRG SAKLPSFQAWGECDLDTALKT KTGSLKRALHKSNAQKTVTIS/ KSPCGKLTQPQLQAES/KKKK KEGKKPEGRLRD

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22092	52460	A	22220	1	1908	MKYIQDFQREKQEERNLARFR EDHPDLIQNAKKSDEPEKPKTPQ QLWYTHEKKVYLKVRPDATTK EVKDSLKGQWSQLSDKKRLK WIHKALEQRKEYEIMRDYIQK HPELNISEEGITKSTLTKAERQL KDKFDGRPTKPPPNYSLYCAE LMANMKDVPSTERMVLCSQQ WKLLSQKEKDAYHKKCDQKK KDYEVELLRFLESLPEEEQQRV LGEEKMLNINKKQATSPASKKP AQEGGKGSEKPKRPVSAMFIF SEEKRRQLQEERPELSESELTRL LARMWNDLSEKKKAKYKARE AALKAQSERKPGGEREERGLP ESPKRAEIIWQSVIGDYLARF KNDRVKALKAMEMTWNNME KKEKLMWIKAAEDQKRYERE LSEMRAPPAATNSKKMKFQG EPKKPPMNGYQKFSQELLSNGE LNHLPLKERMVEIGSRWQRISQ SQKEHYKKLAEQQQKYKVHL DLVWKSLSQDRAAYKEYISN KRKSMTKLRGPNPKSSRTTLQS KSESEEDDEEDEDDEDEDEEEE DDENGDSSEDDGDSSESSEDE SEGD/EGGADRAQWEGRGVL PGGPPGDSTSLTPQNEEDED EDDEDDDEDEDENESEGSSSS SSSGDSSDSN
22093	52461	A	22221	129	2365	
22094	52462	A	22222	5	2730	PSLRFASIGFVWRLAAPASAAA ELRLDCSARRAPRCRPPALPSTR SAEAGVLCFRREEQQAATA AAAAAAATAAAAAAPPPRP EEELPPREGAAVPGRAGEGA ATQSQGSRWSGKPGGRAAPA RPRRWLDSWRMNGEADCPDLD EMAAPKGQDRWSQEDMLTLE CMKNNLPSNDSSKFKTTESHM DWEKVAFKDFSGDMCKLKWV EISNEVRKFRTLTELILDAQ*HF KNPYKG/KKLLKKHPDFK
22095	52463	A	22223	1	446	RPSPTSSM/PGLWGYSRPCSSG VPASALQA*SPAFSPASQRPPTT SWWEVP*EEGRA/PVWEGRIRA VGPAPAS*PSDLPAWSCRWRE TRGISPAEDAMLLRAVEPLEGC QRPLDSEPP/SPARTSAPAASA SPPAPGGPPCLARPLPR

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22096	52464	A	22224	582	1175	THTHVPAGTHPHTQTTSLSHLI GRALTVPESPKCPCLLPSAC*PR PGRAQPAWPAWSKKEASNPGS E/PPQHSL*RRMAPPE/PVPARA VHTCRCLSSAPPGARLPLDPER RAPQSPRSPPSAQPPPPPPPPPP PPPGRRGSPSQSWRSPPPPRTR SRSPRRSRVRGPRAPALAAPPP GARPGCAAAACGSPGTGS
22097	52465	A	22225	609	5241	GPQTTWCGRPTMCQHCQPAVS SWKQPSHDPCCRGGENRRQPG TPARATQGRLLRRRPEGARVPSA RRGRPRARWRDKERNNTCVA ML*QVTNSTANAPQNNEPVD IMAEKVEAPASVDWQKRLT LETQLFRFRLQASKIRELLADK GHGTYISPFSLAKQMQUELQRL LEAEQRAENAETQVGVMEKV KLSNLKNVDSEGLHRKYQELL KAIGKDELISQLEAQLEKQKQ MRAEEAKTVQEKAQKKEW
22098	52466	A	22226	2	205	
22099	52467	A	22227	1	6186	
22100	52468	A	22228	96	1584	DLGSGITASPPRPEPEHPVFPFA PHTPSKMGKEKTHINIVVIGHV VDSGKSTTTGHLIYKCGIDKRT IEKFEKEAAEMGKGSFKYAWV LDLKLKAEREPGTTIDISLWKFE TTKYITIIDAPGHRDFIKNMIT GTSQADCAVLIVAAGVGEFEA GISKNQGTREHALLAYTLGVK QLIVGVNKMDSSTEPAYSEKRY DEIVKESVAYIKKIGYNPATVPF VPISGWHGANMLEPSPNMPWF KGWKVERKEGNASGVSLLEA LDTLPPTRTDKPLRLPLQD/V YKAGGIGTVPVGRVETGILRPG MVVTFAPVNITTEVKSVEMHH EALSEALPGDNVGFNVKNVSV KDIRRGNVCGDSKSDPPQEEAQ FTSQVHILNHPGQISAGYSPVIDC HTAHIACKFAELKEKIDRRSTK KLEDNPKSLKSGDAAIVEMVPG KPMCVESFSQ*PVIG/RTPVRD MRQTAA/VGVKINQKKSVA GKVTKSAQKAQKAGK
22101	52469	A	22229	1	1023	
22102	52470	A	22230	1	396	
22103	52471	A	22231	2	1259	
22104	52472	A	22232	1	2514	

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22105	52473	A	22233	3	2027	EESDCLTEYEEDAGPDCSRDEG GSPEGASPSASTASEMDVSLHFVL WGCLHVVQRMIDKAEDVCLFV AQPGELVGQLAVLTGEPLIFTL RAQRDCTFLRISKSDFYEYDSP KLECGWIISED/PNPWTSPTSTGL NPLFLELCRHMVFQRLQGQDY VFRPGQPDASIYVVQDGLLELC LPGPDGKECVVKEVPGDSVN SLLSILDVITGHQHPQRTVSARA ARDSTVLRPLPVEAFSAVFTKSA RTITGCVWRYVRASASYCPYLP PLCDPKDGHLLVDGCYVNNVP GSLWRYVRASMT/RRATCPRCA TPRTGTYSWMAATSTICQASGR PHHPHTQAPPAPHTRTRRTSPA AWVPKRSSPLTWGARMRRTSA PTGTACPAGGCCGSG*IPGLTR* RFQTLWKSSPAWPTCPVCGS*R LSSAPTASTCARPSTASRPWTL GSSTRSILRTRRMSTAVTTTAT PAPIITPST*GTNGTGCAQIRPA EPSPGARTSWNPSLSATFAPEEF VASP*LDVPICRMGQCCSLPGG ATLP*GPCGPQCMPGNVVPPER TAARYRQTTAYQTPACPTPPRG QRPT/CVPTVSSLQAGLQGGPRS DFDMAYERGRISVSLQEEASGG SLAAPAREPREQPAGACEYSYC EDESATGGCFFGPYQGRQTSSIF EAAKQELAKLMRIE

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22106	52474	A	22234	281	1832	NDSGLPDRPSSWNQPM EAPLQ TGMVLGVMIGAGVAVVVTA V LILLVRRRLVPKTPADGPRY RFRKRDKVLFFYGRKIMRKVSQS TSSLVDTSVSATSRRPMRKKLK MLNIAKKILRIQKETPTLQRKEP PPAVLEADLTEGDLANSHLPSE VLYMLKNVRVLGHFEKPLFLE LCRHMVFQRLG/QGDYVFRPG QPDASIYVVQDGLLELCLPGPD GKECVVKEVVPGDVNSLLSIL DVITGHQHPQRTVSARAARDST VLRLLPVEAFSAVFTKYPESLVR VVQGPSPGPAPYPAPSYGHAP RALQIIMVRLQRVTFALHNYL GLTNELFSHEIQPLRFPSPGLPT RTSPVRGSKRMVSTSATDEPRE TPGRPPDPTGAPLPPTGLGGG PRSDFDMAYERGRISVSLQEEA SGGSLAAPAREPREQAGACEY SYCEDESATGGCPFGPYQGRQT SSIFEAAKQELAKLMRIEDPSLL NSRVLLHAKAGTIARQGDQ MEEVKVPAFAVIVD
22107	52475	A	22235	50	4287	PGRKSPGAEDRALWGPACRL TDSGLPDRPSSWNQPM EAPLQT GMVLGVMIGAGVAVVVTA VLI LLVRRRLVPKTPADGPRYRF RKRDKVLFFYGRKIMRKVSQSTS SLVDTSVSATSRRPMRKKLKM LNIKKILRIQKETPTLQRKEPP PAVLEADLTEGDLANSHLPSEV LYMLKNVRVLGHFEKPLFLELC RHMVFQRLGQGDYVFRPGQPD A/SIYVVQDGLLELCLPGPDGKE CVVKEVVPGD/VSNS
22108	52476	A	22236	283	403	TCLSLVSGCGHCEKMNSEENW *IPIQWASSNPGRRRKNIR
22109	52477	A	22237	33	222	NGPMICFVKQLEIPQYGRNNV PTTTPRSNLAKELEKYSKTSFEY TINDNHTYGGGLGCMRPLV
22110	52478	B	22238	1	1860	
22111	52479	A	22239	303	672	GITACVFFSMAEGRTRAERSCD SK*AIGAPAE*GGASPGKSP WQAGAGYPLGACGHKARLWIP WRRSWSGEKGARGCRGTGKK LGHQGWWRWETPGRPGGAGPA GFPDPVVMGCEKEASRV
22112	52480	A	22240	1	1377	

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22113	52481	A	22241	1	2232	MQDTEKDDNNDEYDNYDEL VAKSLNLGKIAEDAAYRARTE SEMNSNTSLSLEDDSDKNENLG RKSELSLDDSDVVRETVDLSLK LLAQGHGVVLSNMNDRNYA DSMSQQDSRNMNYVMLGKPM NNGLEKMMVEESDEEVCSSSL ECLRNQCFDLARKLSETPQER NPQQNMNIRQHVREEDFPGR PDRNYSMDMLNLMRLLEEQLSPRS RVFASCAKEDGCHERDDDTTS VNSDRSEEVFDMTKGNLTLE KAIALETERAKAMREKMAMEA GRRDNMRSYEDQSPRLPGED RKPSSSDSHVKKPPYKGDPSRT EKKEKCPPTPGCDGTGHVTGL YPHRSLSGCPHKDRVPPEILA MHESVLKCPPTPGCTGRGHVNS NRNSHRRDIQVFNLQKQEMIDR LESLSGCPAAAAEKLAKAQEKH QSCDVSKSSQASDRVLRPMCFV KQLEIPQYGYRNNVPTTTPRSN LAKELEKYSKTSFEYNSYDNHT YGKRAIPKVVQTRDISPKGYDD ANGYCKDPSPSSSTSSYAPSSS SNLSCGGSSASSTCSKSSFDYT HDMEA AHMAATAILNLSTRCR EMPQNLSTKPDLCATRNPD EVDENGTLDLMSNKKRPRDSC CPILTPLEPMSPQQAVMNNRC FQLGEGDCWDLVPDYTKMKPR VRIDEDESKDITPEDLDPFQEALE
22114	52482	A	22242	727	4372	LWACVLPGVTLPPFLGKETSCK MEVDTEEKRRHRTSKGVRVPV EPAIQELFSCPTPGCDGSGHVS KYARHRSVYGCPLAKKRKTQD KQPQEPAPKRKPFVAKADSSV DECDDSDGTEDMDEKEEDEGE EYESDNDEPGDEDEDEEGDRE EEEEIEEEDDEDGEDVEDE EEEEEEEEEEEEENEDHQMNY CHNTRIMQDITLDDNNNDEY DNYDELVAKSLNLGKIAEDA AYRARTESEMNSNTS

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22115	52483	A	22243	34	1558	PASEEFNSLHGRTPRDLERN QQSTTEERRRHDCVQQAASEHN EGKWDFAFSAQSQPKP*KPFDV PC*DSRPACP*EHTAGTSGSTSS ETCFFQSSEWPYGELGAYNIPT GPKSTLSSLVTGVSNSSSLS*LP SPKNTITNWFHTRDHSSYSEIHS KACANP*APSQPSR*ASWIATG SFRRAGLAT*PCCTGSKLLPAW VLANHRWDRTRDGIQKQGNSE *PSSPGTRAFEGNSSPAPAASIT SMLSPSFTPTSIRKMYESKEKS KEEPASGKAALGDSKEDTQKA SEENLLSSSSVPSADRDYFSHY KFQTVRHYRGSSCS/PHLSQGQP FTPKEQDYSDLKGNWGRKNTH FGHSPVSLQHFFRPVPPSSPLSP MVPNG*GLLTKLHPGFGTEDA GPGSTSTASSKFAPNWCASSWD GLESFTGNIWPHPGSALLPFN*S LVHPLLNPNGNTSASNGGATA ANSAQSCILQALVSHGSSCSAF QDNPSETCPAGQACPHALP
22116	52484	A	22244	1502	2657	EGKVPLAFIVLTSLLNAVMSPSF FSCRLLVTALKVSSRCSAMKGV EFFTCWSTFKPFRPASTSSTEST TPECELSLSFSLFAERLERRGFK STLAFCSISKISTLFSAWSSNGIG AK*FPEFCPGDRMACSRPASLSS SSCG/S*PKTAGSAS*SARVREPP TEPTGRD*PFSQ/TSSIIEAKHGT LSRLKNSLKSKSPGDCSGKTAS LGTS*SAAGSCARMTSTSSSAT PPLHSTIPSTEA VRRLLVFLPL* SSSSILSSKPVSSMVSD*LVGPA ENHSGSSSV*ESFLLRSPKTRLL SPNSLLKRLSLKSLRSLSLKSR RSLSLSGDPSQQRSGRLSSHQ SYVHQADEAHYLSLMDFLSA GS*QRLSRGSPLOQSSVSEG
22117	52485	A	22245	324	391	
22118	52486	A	22246	42	274	

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22119	52487	A	22247	1	835	MCAGNLCSSWEERWAVDEKEA TDKKPHVGGFGGAPAPAAPA AAMSGRSVRAVTRSRF*DDIKK VMAAIEKVRKWEKKWVTVD TSLRIFKWWPVTDSKEKEKSKS NSSAAREPNGFPDASANSLL LEFQDENSINQSVSDVYQLKV DSSTNSSPKPPKQSESLSPAHTS DFRTDIDSPPTLGGQDGRSPP LPSSSEVADEPPTLTGRTSFHL ETQVVVEEEDSGAPPLKRFCV DQPTVPQTGSEKLAPSRPSAFW ALPLFIWFWRPRVCWG
22120	52488	A	22248	3	244	
22121	52489	B	22249	271	711	
22122	52490	B	22250	73	200	
22123	52491	A	22251	885	975	GSTWWPAD*AQL*LHLPTRCM AECWEIPA
22124	52492	A	22252	102	909	PGGRHGRQNDFAAPGGRLEARI HGTVSAPLYHRVLCRLGSRPA SAAGPAARGDDLAPGEHSFCE DGNVAVVESVDRSAINRAMQN PRKSTASVCWTFTASDLPAQGV VPTSSSTRTLREDPFPPSAEKWL RAVLHHFVNEKLQQIFIELTLKP SRRSMSGRHPLDSNPVLQQQGR CDLIENKLSPPGIMSVLDDVCP CTPRAGEQTRHCCRTAGGCGD PRAFQQLERRFVIHHYAGKTHR PLPGLTPTGNSTNARNIVMDTQ QRTGNN
22125	52493	A	22253	48	112	
22126	52494	A	22254	1243	1615	YSPSSWFSNLYQPSTGALSSSET PKDMAPMKSLREVRSQSHTSTL SRRSTSPGFRNLTKVSFHTGFSV AFTVRVFCVFRFRGSGMSFSFT* GSEPLGSGIRLIRASPTVTWISS AVGARISSC



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22127	52495	A	22255	468	1431	SVSTTRSFSDSSAKTAAAMPVT VTRTTHHNHPDVFGAWGP*S WGPLWALTQPLGLLRLLQLV STCVAFSLVASVGAWTGSMGN WSMFTWCFCFSVTLILIVELCG APGPPPPWSWR\NFPATFACYA ALFCLSAIIYPTTYVQFLSHGR\ SRDHAIAAATFFSCIAACG\YATE VAWTRARPGEITGYMATVPGL LKVLETFVACIIFAFISDPNLYQ HQPAALEWCVAVYAIICFILAAIA ILLNLGECTNVLPIPPFSFLSALA VCLSSMPPPLFSGPSTSSMRSM AASLGAREM*AAAAGMPTTW VPGTADWL RPS
22128	52496	A	22256	98	414	CTRVSVAEKTSVCLFGLYWESL SISSSESSAKWPFFSTIRASSTT RHLSCRRFLK**CFLINSHSRP GVATTISGRFSLCCFCVDIPPT KIAVLIPVNLAT
22129	52497	A	22257	2	224	
22130	52498	A	22258	2	115	
22131	52499	A	22259	2	118	
22132	52500	A	22260	472	648	GPGRSFVTWWNW*RRMAQC PPAEGVQRPECLGPHRAVPAP AHVGLHQEPSRLLPALH
22133	52501	A	22261	540	1893	GRCATPRPRWRGHQCDPPPGD VCVAWREMLRNKKRRR\DLG NLIKRFLTAPNSLPD/AVVLTTE EAVIFWCNVLAQQIFGL/PLEM MNEQPLEGAVREKALHTMREQ TQRMEGLVKQL/LTSLKIEAAPT HLLNEKVDVPM/MLRVVVEREA QTLVYNVNHTEPGTHITVRW QRVPHGAEFVVEE*SEGWPVPV PKPHRAVVGANAHISFCPPQEL SKRFTAIRKTKGDGNCFYRALG YSYLESLLPDAFQPLLPQAWV SPGESQGAGIRDPLWPVPVPKP HRAVVGANAHISFCPPQELSKR FTAIRKTKGDGNCFYRALGYSY LESLLPDAFQPLLPQAWVSPG ESQGAGTRDPLWLWLFRLWLL RLCLLLLLLIGETAQSRLALTW GRHKQGRRLARLSGILGLALRK QWLGGQVAQLLQNLHLLLLR WAGLGVIIVFQVSNQPAWERTG
22134	52502	A	22262	1	1772	
22135	52503	A	22263	107	294	LHLLSFGYLTHQLCLHLKWD HTLHSHSHHTIAR*AGCSEATWS PPRRLRAPRSRALCSGFR

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22136	52504	A	22264	1	474	
22137	52505	A	22265	1	148	VKYHEFTCSFKKQITVPEDARL LK*DVRGRPSRLFLADPPPHHT VNREY
22138	52506	A	22266	509	2755	YQSQSFEDEMNQVTDWVDP SFDFFLECSGVSTTIVATSLGVNN SSHRRKNGPSTLAESSRFPARKVR GNLSSLEQIYGLENSKEYLSENE PWVDKYKPIETQHELAHVHKKKI EVEVETWLKAQVLGRQPKQGG SILLITGPPGCGKTTTLKILSKEH GIQVQEWINPVLPDFQKDDFKG MFNTSSSFHMFYQSQIAVFKE FLLRATKYNKLQMLGDDLRTD KKIILVEDLPNQFYRDSHTLHE VLRYKYVRIGRCPLFIISDSL SGDNNQRLVPKEIQEEWSISNIRFN PWAPTMMKFLNRIVTIEANKN GGKITVPDKTSLLELLCQCGSGDI RSAINSLQFSSSKGNNLRPRKK GMSLKSDAVLSKSKRRKPKDR VFENQEVQAIGGKDVSLFLFRA LGKILYCKRASLTEDSPRLPSH LSEYERDTLLVEPEEVVEMSHM PGDLFNLYLHQNYIDFFMEIDDI VRASEFLSFADILSGDWNTRSL LREYSTSIATRGVMHNSKARGY AHCQGGGSSFRPLHKPQWFLIN KKYRENCALAAKALFPDFCLPAL CRQTQLLPYLALLTIPMRKSSFR FSFYSKDIGEGLPSGRRTLWGR IKWEGPGLDRGTWDD*TPDSG DEAQLNGGHSAAESLGEPTQA TVPETWSLPLSQNSASELPASQP QPFSAQGDMEENIIMEDYESDG DIEASLLIRLLHSFHFCHFSGT
22139	52507	A	22267	2	161	
22140	52508	A	22268	1	599	VTRLFFQPGYGTLPQQRLLMPK KNRVAIYEELLFKVEGVMPVKK DVPIPKHPELA\DRNVPNLHVM KPMQSLKS\RGYVK\EQFAWVR HFYWYLTG*GYQGVSISSRDYL VHLPPEIVPCHPYGRSPSRRLAR PSG*KVLEGA*ANLRGLHKNGEA DKRLPTRRECLCHPGA\DKKAE AG/ALGSSNPNPQFRGGFGRGR GQPPQ

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22141	52509	A	22269	1	345	KHPELADKNVPNLHVMKAMQ SLKSRGYVKEDYLHLPPEIVPA TLRRSRPETG/RPRPKGLEGERP ARLTRGEADRDYRRSAVPPG ADKKAEAGAGSATEFQFRGGF GRGRGQPPQ
22142	52510	A	22270	2	161	
22143	52511	A	22271	2	641	RRPQHACSFFFSPGTGPCSRRR CLMPKKNRIAIYEILLFKEGIVM VAKKDVHMPKHPLELADKNG APTFFHVMKGHAGLSKSPRATV KGTSAWGDIFYWYLTN*GY QGVSISSRDYLSGPCREICCLAT ATARSPSKRLGKAFGLKRSWE GLRRPGEDFTRGGKFDRGYLT GRIAVATLVADKKAAG/ALGS SNPNFQFRGGFGRGRGQPPQ
22144	52512	A	22272	1	1693	MFNSVPVQNEGDSFNFEKVKA EFRPGTQTQEYIKGMEDSASEV TVNREVTDDNPYTISVTNKTL AIRIKMFMPRIAELKVTVIKM AFELSTRCSKRLM/DGSFETVLT DVIEGKTMSGYDRSRVNLNPNF NNQVIFRVVRKTPDSNDSNVV DAIQVRSYAEVIDAKFRYPLTG LLFVEFDSKMFPNQLPTISIRKR WKIVNVPSNYDPESRTYNGNW DGTFFKAWTNPAWVLYDLM INQRYGLDQKELGISVDKWAL YEAAYQCDQMVLTAKAARNL ATFVT/CIIQSQTDAPREPAYIFT NDNVVNGDFSYSQARRACTR RAT*CLMMSKTCINRSLYSI/ V/EGHSTVRNNVTSITAIGAHV EA/KANRRGRWILKTNLRSTTV NFATGLEMIPTIGDVVAISDNF WSSNLTMLNSGRLLVSGSQIF LPFRVDARAGDFIIVNKPDKP VKRTISSVSADGKTIENIGFGFP VKPNTVFAIDRTDLALQYYVVT KIDKGDDDEFTSKSRRWSTIL ISTMKLITGLTSTTDRQASLSQI R/CPKPENVK/CPQSSRESSRG

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22145	52513	A	22273	1	1843	MEDNLSINKIKILLVSVDGEIDE TFSLKQLMFNSVPVQNEGDGSFN FEGVKAEFRPGTQTQEYIKGME DSSSEVTVNREVTTDNPTYTISVT NKTLSAIRIKMFMPRAAYELKVT VIKMAFELSTRCSKRLM/DGSFE TVLTDVIEGKTMSGYDRSRRV NLPNFNNQVIFRVVRKTPDSND SNVVDAIQVRSYAEVIDAKFRY PLTVLLFVEFDSKMFPNQLPTIS IRKRWKIVNVPSNYDPESRTYN GNWDGTFKKAWTNNPAWVLY DLMINQRYGLDQKELGISVDK WALYEAAYCDQMVLTAKA ARNLATFVT/CIQSQTDAYKV RDICSIFRGMSEFWNGPREPAYIF TNDNVVNGDFSYTSQARRACT RRAT*CLMMSKTCINRTLQYS I/V/EGHSTVR/NNVTSITAIG/AH VEA/KANRRGRWILKTNLRSTT VNFATGLEMIPTIGDVVAISD NFWSSNLTMNLSGRLLVSGSQ IFLPFRVDARAGDFIIVNKPDK PVKRTISSVSADGKTIEINIGFGF PVKPNTVFAIDRTDLALQQYVV TKIDKGDDDEFTSKSRRWSTI LISTMKLITGLTSTTDRQASLSQ IR/CPKPENVKICPQSSRRG
22146	52514	B	22274	1	1452	

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22147	52515	A	22275	1	1902	MIQKVISGSKGGSQKPHNPVEM EDNLISFNKIKILLAVSDGEIDET FSLKQLMFNSVPVQNEGDSFNF EGVKAEFRPGTQTQEYIKGME DSSSEVTVNREVTTDNPYTISVT NKTLSAIRIKMFMPRIA YELKVT VIKMAFELSTRCSKRIM/DGSFE TVLTDVIEGKTMMSGYDRSRRV NLPNFNNQVIFRVVRKTPDSND SNVVDIAIQVRSYAEVIDAKFRY PLTGLLFVEFDSKMFNPQLPTIS IRKRWKNNVNA PSNYDPESRTY NGNWDGTFKKAWTNNPAWVL YDLMINQRYGLDQKELGFSVD KWALYEAQYCDQMV/LTAK AARNLATFVT/CIQSQTDAPRE PAYIFTNDNVVNGDFSYS TSA RRACTRRAT*CLMMSKTCINRT LSQYSI/V/EGHSTVR/NNVTSIT AIG/AHVEA/KANRRGRWILKT NLRSTTVNFATGLEMIPTIGD VVAISDNFWSSNLTMNLSGRLL EVSGSQIFLPFRVDARAGDFIIV NKPDKGPVKRTISSVSADGKTI EINIGFGFPVKPNTVFAIDRTDL ALQQYVVTIDKGDDDEEFTS KRRRWSITLSTMKLITGLTSTT DRQASEVKPVNFTSSRHQAQPE VGLIPPLWPQGGKIIAQTSKSS
22148	52516	A	22276	1	675	
22149	52517	A	22277	155	700	SGVLVGHALTARQPSSGRRLV VDHSANRRGRWILKTNLCSTT VN FATGLEMIPTIGD/GDFIIVN KPDGKPVKRTISSVSADGKTIEI NIGFGFPVKPNTVFAIDRTDLAL QQYVVTIDKGDDDEEFTSKS RRWSITLSTMKLITGLTSTTDR QASLSQIR/CPKPVNK/CPQSRE SSRG

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22150	52518	A	22278	1	1871	MEDNLSINKIKILLAVSDGEIDE TFSLKQLMFNSVPVQNEGDSFN FEGVKAEFRPGTQTQEYIKGME DSSSEVTNREVTTDNPYTISVT NKTLSAIRIKMFMPRIAYELKVT VIKMAFELSTRCSKRLM/DGSFE TVLTDVIEGKTMSGYDRSRRV NLPNFNNQVIFRVVRKTPDSND SNVVDIAIQVRSYAEVIDAKFRY PLTGLLFVEFDSKMFPNQLPTIS/ IRKRWKIVNVP SNYDPESRTYN GNWDGTFKKAWTNNPAWVLY DLMINQRYGLDQKELGISVDK WALYEAAYQCDQMVL TAKA ARNLATFVT/CIHQSDTAYKVV RDICSIFRGMFSWNGESISVIID RPREPAYIFTNDNVVNGDFSYT/ SQARRACTRRAT*CLMMSKTCI NRTL SQYSI/V/EGHSTVR\NNVT SITAIGAHVEARPTDCGRWILK TNLRSTTVNFATGLEGMPTIGD VVAISDNFWSNLT MNLSGR LQ EVSGSQIFLPFRVDARAGDFNIV NKPDAPVKRTISSVSADGKTI EINIGFGFPVKPNTVFAIDRTDL ALQQYVVT KIDKGDDDEEFT/S KSRRWSTILISTMKLITGLTSTT DRQASLSQIR/CPKPENVK/CPQS RESSRG

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22151	52519	A	22279	3307	5305	CRSSQNTQETSPDRALLVNLRP SQGPLLALWVPAEGVGGKGHC LPPRSFFRMDNQLVPAVSDGEI DETFSLKQLMFNSVPVQNEGDS FNFEVKAEFRPGTQTQEQYIKG MEDSSSEVTNVREVTDDNPTYI SVTNKTLASAIRKMFMPRIAYEL KVTVIKMAFELSTRCSKRLM/D GSFETVLTDVIEGKTMMSGYDRS RRVNLPNFNNQVIFRVVRKTPD SNDSNVVDIAQVRSYAEVIDAK FRYPLTGLLFVEFDSKMFPNQL PTISIRKRWKIVNVPSNYDPESR TYNGNWDGTFKKAWTNNPAW VLYDLMINQRYGLDQKELGISV DKWALYEAAYCDQMVLTA KAARNLATFVT/CIISQTDAYK VVRDICSIFRGMFSWNGESISVII DRPREPAYIFTNDNVVNGDFS TSQARRACTRRAT*CLMMSKT CINRTLSQYSI/V/EGHSTVR\NN VTSITAI GAHVEA/KANRRGRW ILKTNLRSTTVNFATGLEMIPT IGDVVAISDNFVSSNLTMTNLG RLLEVSGSQIFLPFRVDARAGD FIIVNKPDKGPVKRTISSVSADG KTEINIGFGFPVKPNTVFAIDRT DLALQQYVVTKIDKGDDDEEF TSKSRRWSTILISTMKLITGLTS TTDRQASLSQIR/CPKPENVK/CP QSRESSRG
22152	52520	A	22280	3	412	PAAVA*VKTEPETPGPSCLSQE GQTA/VKTEESSELGNVYIKIDH LETIQQLTAVVKKIPLITAK/W QRAMTRKVLQEI LEKNPRFH HLTPLKTKHIAHWCRCHGYTPP DPESLRNDGDSIEDVLTQIDSEP
22153	52521	A	22281	2	513	IFACWGWKQAWPACCNLSRGQA VKGNQLLPVSLVKKRTTLAPNT QTASPRALADSLMQLARQVSR LE/QRAKREPENEEVDILSLSE PVKINIKKEQEEKQEEVKFYLP TPGSEFIGDVTQKRLEEVDSFTG DDL VQGFSGGISRRYGEKPGVQ DLEVEPDSVTEMLQFYD

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22154	52522	A	22282	1	1197	MAWPCISRLCCLARRWNQLDR SDVAVPLTLHGYSOLDSEEPGT GGAASRRGQPPAGARDSDGRDV PLTQYQRDFGLWTTGAGPKDPP PGRGPGAGRRGKSSAQSSAPP APGARGVYVLPIDADA AAAAV TTSYRYGLGRDRNESPPCGGRT RRPGARGMGWAAERRRI.EPGS HATSELPAASEVTPVWSVGTA GGAFAAPCPETVLEHPRAGSAP LPSQPPSWGQPSWPAFSRVGT GLPLTPTAGPSRARGARRPCPP ALPGHCLLDRTYTGLQTLGAET LLAVVNSAAMNVGVQVVDVE LHRHSLGEDCIYPQSSDISDA PPSLPLTIPAPVKASSPIKQSHPEP VPDTSVEKGS/PGSCPFHL*GPL SHLGSSPGFLLWRPPGLLSSVA
22155	52523	A	22283	131	677	PSSLS/CDIFLRSPISTPSPSLPRT PTSTPVHVKKGTAGSVNNPYV IMDKQPGQVIGATTPTSGSPTN KISTASQISQGTGSPVKIHGSSF VTSTVKVIHQEPGEAPHVPAT GAASQSPLPQYVTVKGGHMA VSPQKQVITPGEIAQSAKVQP SKVL/GQIG*CLPTLARADLLYS
22156	52524	A	22284	3	5128	LLKIHSSQSSPQAVLTTPSQLK PLSVNTSGGVQITLMPVNVVQ SFSTSKPPAILPVAAPTVPVPSS APAAVAKGEDASCFSKSVQ YYGWNIGKRRAAEWQRAMTM RKVLQEILEKNPRFHHLTPLKT KHIAHWCRCHGYTPDPESLRN DGDSDIEDVLTQIDSEPDHGLG DGKSSSVGPTAVVTLACHLEC PSSFSSADNLCKRLLEDLQFQK REPENEEVDILSLSEPVKINIKK EQEEKQEEVKFY
22157	52525	A	22285	112	651	GGLCTMARTKADWPANRTGG KAPRKQLAYKKPASQECGPLT GGVKKPHRYR/PGTVGGSVKFR R/YQKSTVLLIRKLPFQ/RLVLR EIAQGL*NKILRFQSAAGALQE GKWRPNLVWPFLLKDTNLVC*S MAKRVTHIAKKTFLAPPHTVE NRALRIHWSWMGHFISQKKKK NFSSSCYV
22158	52526	A	22286	1	339	



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22159	52527	A	22287	2	1369	EPAPPARRSLSAAAAASGTTVD TASHSLVFSQQQLNMQRIGFRV NCTVAM*DVYFKAHRAVLAAAF SNYFKMIFIHQTSECIKIQPTDIQ PDIFS YLLHIMYTGKGPKQIVD HSRLEEGIRFLHADYLSHIATE MNQVFS PETVQSSNLYGIQISTT QKT VVKQGLEVKEAPSSNSGN RAAVQGDLPQLQLSLAIGLDDG TADQQRAC PATQALEEHQKPP VSIKQERC DPESVISQSHPSSE VTGPTFTENSVKIHLCHYCGER FDSRSNL RQHLH THVSGSLPFG VPASILESN DLGEVHPLNENSE ALECRRLSS FIVKENEQ QPDHT NRGTTEPLQISQVSLISKDTEPV ELNCNFSFSRKRKMSCTICGHK FPRKSQ LLEHMYTHKGKSYRY NRCQRFGNALAQRFQPYCDSW SDVSLKSSRLSQEHLDLPALLES ELTQENVDTILVE
22160	52528	A	22288	363	947	STARRGKSRSPAVALQRQPSA ASRSPSSRRRRGVSKVSVPLA RTKQTARKSTNIGK/APRKQLA YKKPARKSA/PSTGGVKKPHRY RPGYCGRSVKFRR/YQKSH*DF* FRKLFPQAVVWRENLLKDF*K QILRLQSRSYRVALQGGQVEA LSGVGLF*KTTNLLC*SMPKRV NNYCQKDIPAKHARIPWRTVL
22161	52529	A	22289	1	92	
22162	52530	C	22290	10	198	
22163	52531	B	22291	74	205	

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22164	52532	A	22292	2	1914	RGHCEPSRAAPSRADRHPSAL ARDPGRRRGPAGQAAPQPMEP ENIVANTVLLKAREGGGNNRK GKSKKWRQMLQFPHISQCEEL RLSLERDYHSLCERQPIGR\LF* EFCATRPELSRCIAFQDGMAYE EATPDEKRKACGRRLMQNFLS HTGPDLIPEVPARQLVTNCTQRL EQGPCKELSQELTRVTHEYLSV APFADYLDISIYFNRLFQGGGLE REAITKNTLRQYRVLGKGGFG EVCACQVRATGKMYACKKLE KKRIKKRKGEA\MSLNEKQILE KVN\SRFVVSLAYGYETKD\AL CLVLTLMNGGDI.KFHIYHMQ AGFPEARAVFYAAE\CCGL\EDL HREIRIVYRDLKPENILDDHGH RISDLG\LAHVHPEGQTIKGRVG \TVGYMAPECLKNERYTSPDW WALGCLLYEMIAGQSPFQQRK KKIKRE\EVERLVKEVPPEYSER FSPQARSLCSQLLCKDPAERLG CRGGSAREVKEHPLFKKLNFKR LGAGMLEPPFKPDPQAIYCKD VLDIEQFSTVKGVELEPTDQTF YQKFATGVSPIPGKNEQMVET ECFQELNVFGLDGSVPPDL\DW KGQPPAPPKGLLQRLFSSPKD CCGNCSDEEELPYPLAPSPRP
22165	52533	A	22293	102	403	
22166	52534	A	22294	1086	1436	
22167	52535	A	22295	965	1231	
22168	52536	A	22296	1434	2215	TPFSLSLTGTVNKEHVLLGFST EDGRWMFTRGGE\DTARIWD LRSRLQCQRIFQVNAPINCVC LHPN\QAEIVGDQSGAIIHWDL KTDHNEQLIPEPEVSITSAHIDP DASLHGQLFNSTGNCYVVD\LT GGUGDEVTOFIPKTKIPAHTRY ALQCRFSPDSTLLATCSA*LRR/ CKIWRTSNFSMLTEL\SIKSGNP GEVSSRG\WMWGCALIGGTPSNI VTASSNNLARLWCVKTGKIKRE YGGHQKAVVCLPFNDVSLG
22169	52537	B	22297	158	385	

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22170	52538	A	22298	145	1232	LPVRAEPTRAAAMSGDEMIFDP TMSK/NMKKKKKKPFMLDEEG DTQTEETQSETKEVEPEPTED KDLEADEEDTRKKDASDDLDD LNFFNQKKKKKK\TKKIFDIDEA \EKGVKDL\KI*SDVQEPTEPED DLDIMLGHHKKKKKNVFPDE DEILEKDEALEDEDNKKDDGIS FSNQTGPAWAGSERDYTYEEL LNRVFNIMREK\NPGYWLPGG RKRKFGPWKPPQV\VRVGTGKT FFCPLLQDICKLLHRSQAISFA FLLG*IGVPSGSIDG**PNL*SKG RFQQKQIENVLRRYINKEYVT\H HTC\RPDITLQKDTLLFPYS AETCHS\RCFCWPVFKTGLPQA VHGQSRGTAPVPKA
22171	52539	B	22299	50	319	
22172	52540	A	22300	3	235	LLLYPLRSLPENPLRLVQQIYSF LKGSSEK*NDLPRVPLLELGVG LLPPNQYSCSRAPCLTCGLTM SLDGAQQGFW
22173	52541	A	22301	3	2849	WAKPVARASPAAVPGRQCQIR GAWSWGEGRGQGPAPSPAGS PATSEESLAPMAWRCPRMGRV PLAWCLALCGWACMAPKGTQ\A EESPFVGNP\GNITGARGLTGT LRCQLQVQGEPEVHWLRDQG ILELADSTQTQVPLGEDEQDDW IVVSQLRITSLQSLDTGQYQCLV FLGHQTFVVSQPGYVGLEGLPYF LEEPEDRTVAANTPFNLSCQAQ GPPEPVDLLWQDAVPLATAP GHGQQRSLHVPGLNKTS
22174	52542	A	22302	3364	3899	LVFLFDDL GIVELVLPGNIVHGI MSVRPRVAAGLRVRLQPGRRW LRGPLQLGAPLGLDLLVDVPGS PRFVVGVELPLVV/EAPRPPTPP AAAQARS*GLECPGRGAAAP REVLHLQTAHIHGPGRGGPR ARPLPLGLCP*T/FSCQEAKGE RGGAHNSNGSGSKWPPPPPPPS

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22175	52543	A	22303	1660	4652	PNPNTCLCNHVESGPPCSTHT YTLTDLQPLFGVVRVPTPSGRG TQAEESPFVGNPNITGARGLT GTLRCQLQVQGEPPVHWRD GQILELADSTQTQVPLGEDEQD DWIVVSQRLRITSLQLSDTGQYQ CLVFLGHQTFVSQPGYVVGLEGL PYFLEEPEDRTVAANTPFNLSC QAQGPPEPVDLLWLQDAVPLA TAPGHGPQKSLHVPAAVGA EGGSRLLWRAPEAGRRKRWGGE VPPVTHAGAGMLRSERD
22176	52544	A	22304	54	288	SEAGQAQPAAAVGVFWTGRRRA WETGEGYYSNLSMELQL*RQ CI*DCFFSSSWRCVPPVYFKEEK YKGNLVCLLFFK
22177	52545	B	22305	243	2641	
22178	52546	A	22306	35	204	
22179	52547	A	22307	244	424	PSLFKNIMTFYPNLHFLWCRGR LYLDVWRQ/VR*FVRNTNYQLP LVLHNLRSRNTFDELV
22180	52548	A	22308	1	477	
22181	52549	A	22309	2	418	WYQHLLLMRASGSFQSWWKV KGEPAYHMANRP**SLISLRTK AKTGA*LFDFVPHFIRKN*SLF TIAKAWNHPKCTSVTDWIKKM WYIYTMEEYAVTRRNKIVSFA ET*MELEVIIVSKLTQEQTCHKC MFSLTSGS
22182	52550	A	22310	30	199	
22183	52551	A	22311	547	682	LVFLTNQRLVSTHQGTWWE*K *CQPVIPSL*FYFLRKFSVIVIW* *LLILP*HPMALK/C/CCQAACS GHFTAGTGEITRPCSISKVLKR LSRL*STSGS**LVFLTNQRLVS THQGTWMKLEAIIISKVTEQEK TKHHMLSLRSGS
22184	52552	A	22312	2	194	CPSMIDWLKKMWHRYTMEYY AAIKKNEIMS/FAGTWMKLEAI ILSKLTQEQKN/KHCFMFLITGS
22185	52553	C	22313	1	1845	

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22186	52554	A	22314	I	1384	MRFQDRTWQVPYPSQCSWGSS RQGVVPOARGIVLDSQEAYPSP GGTTLCHMDPDKQAPG/PVRRP APGNPNRLVVSVALQFLTFHES GITSALRVRLPQSVVSFQGP GC TEA*RRASICRRRV*S*HSTKLDL GA VAAQQQAWVAG/PRSPQRR CHQYS*AGPAWLGLQRGRGSH RPDTSPPWHWFALAGREEQVL PPESLL/RARTPGTHLAPGPGA* TRVQSGPGSWLTWAG*GTPQVI SS/PGAGAVGAPETTAVPTVSLA PRRSVEMWPETKEHLVAVARR KWVSAQEKLRLRGCGSEKMG VSPGETRVYFPALTSRCRRRCG RVSEPSPTASWAPAPSLGWAYQ LAGGRLVLRVGLSAGWRAACP QGGPISWLEGLSSGVLSAG WRAACPQGGPISWLEGLSSST MRQPRAPQSSLPAPAPWGAPDP LAMLAAWIEARPGVWPTQPGP WQVSWVCV
22187	52555	A	22315	II	431	RHLLAAPPAPAAAAAALSH CLRSSGRLAPHTSRRLPRVVKR RVNALKNLQVKCAQIEAKFYE EVHDLERKYAVLYQPLFDRKF EIINAIYEPTEECEWKPDEEDEI SEELKEKAKIVDEKK/DEEKEDP KGIPEFW
22188	52556	A	22316	64	467	PAAWLPIVLAARQLTVQMMQN PQILAALQERLDGLVETPTGYIE SLPRVVKKRVNALKNLQVKCA QIEAKFYEEVHDLQRKYAVLY QPLFDRKEIINAIYEPTEECE WKPDEEDEISEELKEKAKIEDE
22189	52557	A	22317	2	177	
22190	52558	B	22318	228	377	
22191	52559	A	22319	630	767	WRVKFKNTVKIQANF*KSRFIH LTVVPVTILSQVTLQLTMSPKT

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22192	52560	A	22320	80	1362	VTACAAPAAWLPILVADIWSSY NMADIDNKEQSELDQDLDDVE EVEEEEETGEETKLKARSA*LFR MMQNQPQILAVALQERLDG/LW VETPTNGYIESLP RVVKRRVNA LKNLQVKCAQKETQFYEEVH DLERKYAVLYQPLFDKRFIIN AIYEPTEEECEWKPDDEEISEE LKVEKGQIEDEKKDEEKDPKGI P*IWLTVFKINVDLLSDMVQEH DEPILKHLKD KVKFSDAQQPM SFVLEHFHFPENYFTNIEVLTKT YRMRLEPEPDDSDHFSFDGQEI MGCTGCQIDWKKGNVTLKTI RK*/RRNHKGRGTVRTGH*NQ FPNDSFSNFFCPLLKSPESGDL EDVAEAILAADFEIG/HFLRERII PRSVLYFTGEAIEDDDDDYDEE GEEADEEGEEEGDEENDPDY/D PKK/DQNPAECKQQ
22193	52561	A	22321	3	425	GCGCGGAAARGSPAPGRPAAS PPDCPLWLQGCYPPSCDALSA TEADGCD*IYPDTSRDGPHQA SLPGESSFFPGQPNDSYLPERGS ERSRQASYATPAETQDPDEGL PQPGPEALPGGLQVPKSAAPFC GAQHAAGQ
22194	52562	A	22322	2	285	SRFEPVRPTGGDRPHQASPPG DSSSFPGQPNDSRLPECGSECRG QASYATPAETQDPE*RSSPTRS *SPAGGFQVPKSAAPFCGAQHA AGQ
22195	52563	A	22323	85	473	FTMPAVALVPKELYLSSSLKDL NKKTEVKPEKISTK/QDYVHSIL GTANIKKAEERLSESLKRLRY KEAEVRK*LEEKDRQKEAQQL QQKRQETGRE/DGGTLAKVSLE NVLDYQDKTQKSNGEKSEKM

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22196	52564	A	22324	1	1449	MMRAHMFVYKELKQIYKKKT HPHQKVGKGYKQTLRGRHLR GQETYEKKLTHVYETIDFKQQ QYYFHSILGPANIKKATGETER LSESLKLRVEEVEIWKKLEEKD RQGEAQLWQKQKQETGREDGS MLAKGSLEIVLDSKDKTKQSN GEKNEKCETKEKGAITAKELYT MMMDKNISLIIMDAQRMQDYQ DSCILHSLSVPEKAISPGVTASW IEAHLPPDSIDTWKGRGNVEY MVLDDWFSSAKDLQIGTTLWH LKDALFKWEKGGYKNWFLCY SQYTTNAKVTPPPQHQNELSI LDFTYPSLEESIPSKAAEMPPP PIKVDEDELISDQISDNDQNER TGPLNISIPVESVAASKSDVSPH QPVPISKNVPQIDHTKKLAVKL PEEHIKSESTNHEQQSPQNEKV IPDCSTKPVVSSPTLMLTDEEKA HIIHAETALLMEKNKQEKELQE RQQGKQ/K/EKLRRREEHQKAK
22197	52565	A	22325	185	2983	FIMPAVASVPKELYLSSSLKDL NKKTEVKPEKISTKSYVHSALK IFKTAEECRDLDRDEERAYVLYM KYVTYVYNLIKRPDFKQQQAD CAYFLGQTVHILFOHRALLEKK YRAVGAITAKELYTMMTDKNI SLIIMDARRMQDYQDSCILHSL SVPEEAISPGVTASWIEAHLPDD SKDTWKKRGNVEYVVLDDWF SSAKDLQIGTTLRSLKDALFKW ESKTVLRNEPLVLEGGYENWL LCYPQYTTNAKVTPPPR
22198	52566	A	22326	313	3720	FIMPAVASVPKELYLSSSLKDL NKKTEVKPEKISTKSYVHS/AP RKIFKTAEECRDLDRDEERAYVLYM YMKYVTYVYNLIKRPDFKQQQ DYFHSILGPGNIKKAVEEAERLS ESLKLRYEEAEVRKKLEEKDRQ EEAQLRQKQKQETGREDGGTL AKGSLENVLDSDKDKTKQSNGE KNEKCETKEKGAITAKELYTM MTDKNISLIIMDARRMQDYQDS CILHSLSVPEEAISPGVTASWIE AHLPPDSKDTWKKR

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22199	52567	A	22327	46	562	LLQGPFGCGDMPVEARPSAA WRGGRAPGWTFPSPPDRETWK PQ/RASQGESGQRRFGPCPRSGG RPPGPGSAAHSSRSQRWKRASR AWPAAPRKGLLPPAQAWPTTP AAGL*GFLAACKR/PPVGGGRGP APAPCRPASSRCFLICDSGPPCL CSASRAAWMGSAASSRVLFIEG
22200	52568	B	22328	51	445	
22201	52569	A	22329	51	366	CQWNTQTQVCYKQDVQSITAL GSAAQCTCLSSPR*SGKFKLLFS PGLPGTLVPSTIPATSAPRA/SHR AGEAWVGEPRALALQNSSP DWAGYQGLPCKPSIRAA
22202	52570	A	22330	257	916	SPSGSNLETHLRAPDLGGPCPP GPRWWA*TPQGHGPQTRPSAA QPCPPFPQCQLIHCPC/SPAPGT VAAPPAPPTPASQCLLCPWTS PVCSPAPTFFCPMAPVMAFMLP SYSFP/PGTPNLPQAFPPSQPFP SHPTLTSEMASASQPGSPAGPR SPDSHVLVQPPGPPHHRPWVGP PHRSFSPAARPCSSSTCCSRWK PLRVALEPWGPGQGPQRQQL
22203	52571	A	22331	151	1232	GRLGDAARGPQGEAPGGEEAA RADSTRACRSCGLLLGRRGCR PSLKNAELLELTVRRVQCVRG RAREREQLQAEARRALRCRLHP VACTKVHTFVSTCQADITVA AELLNHLLESMPREGSSFQDL LGDALAGPPRAPGRSGWPAGG APGSPSPPGGDDCLSDLEEA PEAELSQA/PC*GARLGARSPGQ PDHSPNCPGVSGGLGDQCQFES CRGGARPSLGSPLLPVGMQW WG*GPGSLPGSSLPPLMDGLQG QPLVTSPAQRPSVS*KNF*GPC SSGSWREGATGRRKNFVELP ALSQVSPSPAFAFNRLCGLWGQR WQKLVLGTSVPGSPGLNKS LN LPLQRGDERQVH
22204	52572	A	22332	1	1524	



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22205	52573	A	22333	3	8875	EDGSLLEQVGHICLARGPGCGPE TPLYSPATGLALQLQGPAAMG ALWSWWILWAGATLLWGKSG EDWISGPTIVFSQPGLTQEA DLKNTGREELTAFLLQNYQLA YSKAYPRLLISSSPASVSILS QADNTSKKVTVRPGESVMVNI SAKAEMIGSKIFQHAVVIHSDY AISVQALNAKPDTAELTLRPIQ ALGTEYFVLTTPPGTSARNVKEF AVVAGAAAGASVSVTLKGSVTF NGKFYPAGDVLRT
22206	52574	A	22334	2	2214	ISATDGPLAPCHGLVPPAQYFQ GCLLDACQVQGHPPGLCPAVA TYVAACQAAAGALGEWRRPDF CPLQCPAHSHYELCGDSCPVS PSLSAPEGCECAREGCVCDAG FVLSGDTCPVPGQCGCLHDGR YYPLGEVFYGPPECERRCECGP GGHVTCQEGAACGPHEECRL DGVQACHATGCGRCLANGGIH YITLDGRVYDLHGSCSYVLAQ VCHPKPGDEDFIVLEKNAAGD LQRLVTVAGQVVSQAQGGQV TVDGEAVALPVAVGRVVRTAE GRNMVLQTTKGLRLLFDGDAH LLMSIPSPFRGLCGLCGNFNG NWSDDFVLPNGSAASSVETFG AAWRAPGSSKGCGECPQGC PVCLAETAPYESNEACGQLRN PQGPATCQAVLSPSEYFRQCV YDLCAQKGDKAFLCRSLAAYT AACQAAGVAVKPVWRTDSFCPL HCPAHSHYSICTRTCQGSAAAL SGLTGCTTRCFEGCECDRFL SQGVCPVQDCGCTHNGRYLPV NSSLLTSDCSERCSCSSSGLTC QAAAGCPVGRVCEVKAEAR/N CWATRGLCVLSVGVANLITTF DGARGATTSPGVYELSSRCPL QNTIPWYRVVAEVQICHGKTE AVGQVHIFQDGMVTLTPNKG VWVNGLRVDLPAEKLASVSVS RTPDGSLLVRQKAGVQVWLGA

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22207	52575	A	22335	3	7639	ITCPENSHYEVCGPPCAPSCFSP APLTTPAVCEGPCVEGCQCD GFVLTSADRCVPLNNGCCGWAN GTYHEAGSEFWADGTCQWCR CGPGGGSGLVCTPASCGLGEVCG LLPSGQHGCQPVSTAECQAWG DPHYVTLDGHRFDQGTCEYL LSAPCHGPPLGAENFTVTVANE HRGSQAVSYTRSVTLQIYNHSL TLSARWPRLQVDGVFVTLFP QLDSLHLAHLGADVVVTTS GLSLAFDGDGDFVRLRPAA
22208	52576	A	22336	2	224	HCYMVVQLWKPRSLRRKSDQL WSSWNQLNLTSELSFISAEQMT EAFDCGSMAGRM*QGGRYLLA ALWDSSVPLS*PQAEPWSGVGP AHLTE/LLSPSRFVSISDLLAPKD LGTESQVSMEV*KDMGRFHW DIPP*A*VFVIFVFQIFISRTYDA TTHFETTCDDIKNLL*R*QGRYL LAALWDSSVPLS
22209	52577	A	22337	2	206	LSSSYLDPQCYETINRIKLYSES LARYGKSPYLPLVGLGELPQG FAR*EPVFKTSVIQNLIFNMICI
22210	52578	A	22338	2	457	
22211	52579	A	22339	2	1556	FVFPSEVAVGLALSPASIFLSFS PFLRAQERLPSLLWWARSPCAF SLLGSCVRACAMNEEYDVIV\I LGTGLTECILSGIMSVNGKKVL HM\DRNPYYGGESASITAE YKRFKIPGSPRVKVGEEERDW NVDLIPKFLKANGQLVKMLL YTEVTRYLDFKVTGSEFVYKG GKIYKVPSTEAELASSLMGLF EK\RRFKEFLVYVANFDIEKDPR TFEGIDPKKTTMRDVYKKFDL GQDVIDFTGHALA\LYRTDDYL DQPCYETINRIKLYSES LARYGKSPYLPLVGLGELPQGFARLR CYLWEGTYMLNKPIE\HIVQE WGKVIGCKI*REEIARCMQLIC DPSYVKDRVEKVGQVITVICIP QPPSKNTNDANSC\HIIPQNQ\I VNRKSDIYVC\MISFA\HNVA AQGKSIATVTTVETKEPEKEIRPA LLELLEPIGTEILVSISDLLVPKD LGVTESQIFISRTYDATTHFETTS DADIKNIYKRM\TGSEDFEEMK
22212	52580	A	22340	66	420	
22213	52581	A	22341	64	140	
22214	52582	A	22342	2	254	

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22215	52583	A	22343	82	3530	HLIVAMPEPTKKEENEVPAPAP PPEEPSKEKEAGTTPAKDWTLV ETPPGEEQAKQANSQSLFIE KPQGGTVKVGEDITFIAKVKA DLSEKPTI/KWF/K/GKWMDLAS KAGKHLQLKETFERHSRVYTFE MQIIKAKDNFAGNYRCEVITYK DKFDSCSFDLEVHSTGTTPNID IRSAFKRSGEGQEDAGELDFSG LLKRREVKQEEEEPQVDVWEL LKNTKPSYEKIAFY/GITDLR GMLKRLKRSI
22216	52584	A	22344	66	358	TWVRGNPKPKITWMKNKVAIV DDPRYRMFSNQGVCTLEIRKPS PYDGGTYCCKAVNDLGTVEIE CKLEVKVIYQGVNTPGQPVFL EGQQQSLHNKDF
22217	52585	A	22345	67	3515	HLIVAMPEPTKKEENEVPAPAP PPEEPSKEKEAGTTPAKDWTLV ETPPGEEQAKQANSQSLFIE KPQGGTVKVGEDITFIAKVKA DLRLKPTIKWFGKWMDLASK AGKHLQLKETFERHSRVYTFE MQIIKAKDNFAGNYRCEVITYK DKFDSCSFDLEVHSTGTTPNID IRSAFKRSGEGQEDAGELDFSG LLKRREVKQEEEEPQVDVWEL LKNAPSEYEKIAFYGITDLR GMLKRLKRMREEK
22218	52586	A	22346	2	39	FQFCVSLFVYIQLNSDVLPE*PR HKKKPPTLSHWFLK*NLHL*N* NTKALKYRKL*V*LTQSKH*QM TYPFCNLYLKT*VTNTNKKV*K EGY*TAKTQKLYPDKVVMTAT KPLKTRSPKPAKYGSPHDTAT WTGSGGLGLEAS*HSA
22219	52587	A	22347	1	113	
22220	52588	C	22348	47	337	
22221	52589	A	22349	1	2292	
22222	52590	A	22350	2	441	LRHAKWFPARANGLKSCVIVIR VLRLDIAVTRVPTWGPLRGWPLE LLECKSIGTANRPMGAGEALRR VLECLASGIVMP/QHALRLAAF GQLHKVLGMDPLPSKMPKKPK NENPVDYTVQIPPSTTYAITPM KRPMEEDGEKSPSKKK

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22223	52591	A	22351	45	402	HALAALEKLFDPDPLALDANK KKRAPVVPVRGGPKFAAKPHNP GFGMGGPMHNEVPPPNLRGR GRGGSIRGRGRGRGFGGANHG GYMNAGAGYGSYGCGNSAT QGYK*LFHKTA YGYS
22224	52592	A	22352	243	3113	FPDITTEEVKMRPMRIFVNDHRH VMAKHSSVYPTQEELEAVQNM VSHTERALKAVSDWIDEQEK SSEQAESDNMDVPPEDDSKEG AGEQKTEHMTRTLGRVMR/VG LVAK/CLLLKGD/LDELVLLC/ KEKPTVAL/DK VADNLA/QL AAVTEDEKFEILQSVDDAAIVIK/ NTKEPPLS/LTIHLTSPVVREE/M EKVLAGE TLS/VNGPPGNVLD R SRIFAA FRGSLPETQRWFQAR ANGLK/SCV
22225	52593	A	22353	139	245	
22226	52594	A	22354	875	2019	NPNSQMPKMTTRSTKQLTNKSG QIDGCPGCRVVPVTCRLGHLSH YWA V WASILRFWEVWKYWL NMGRKSSEFPILKLNGR/TMGD *VLPFHMYV/QPVV/HPQLYPHS VTELTGDYFKPWWDGQPSLQQ VL/ERVDEWMAKEGLD/DPNV QVQFLFTLWEDWGLKKSVLPG/ QCQ*LGAWPVGGFTSKQWD*S *KKA YSFAMGCWPKNGLLDM NKGLSLQHIGRPHSGIDDCKNI ANIMKTAYGGFIFKQTSKPVLI GRGQDAGQGSLVGGPPQNPL PHQRGKRESGHKLCCPKVVP SLWGSMP/LGRGLCCPLQGALA TWPFLEARHFCAPPSPTPQSQPS ISPSHCGPLRGTPGTHRLLPW YNRLWGHQDPRCAPSHP
22227	52595	A	22355	507	916	RKKNEKEGTPPRNMGICEKT KPTFDWCT*K*RGAWNQVGKY TSGYYTGELPQSSKTGQHSNSG NTENTTKILLEKSNPKTHNW*I HQG*NEGKTVKGSQREK*GYP QREAHQTNSRSLCRNPTRQKRV GVNIKHS
22228	52596	B	22356	72	359	

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22229	52597	A	22357	1236	1987	GNSSPPGLPCKSSSSPPPPSLTG APARRAAAAAPRPASRRPPLA\ GGGVQQLFATRP/PGPTRARRP TWR*GPRGSPEETPRRRREWTR RPEPGCRAQGSRRPARPPSGSS AVRSASPASPAPAASAPLGPRS RWS*RPSPRRR/SPPPPPGRRS SDRER/GRRKEASPLTLAEAPA Y/RDQAPPPGSPHLGFQSAAG PSRTASSAP/RSIGGRCANTPA PAAIFPPSLRP/PRAGPVGDLRAS GVDAAG
22230	52598	A	22358	287	2082	LKTETSEEKARRYKDRPSQLNA VFQEQKKMIQAQESITLEDVAV DFTWEEWQLLGAQKDL.YRD VMLENYSNLVAVGYQAKPDA LFKLEQGEQLWTIEDGIHSGAC SDIWKVDHVLRLQSESLVNR KPCHEHDAFENIVHCSKSQFLL GQNHDFDLRGKSLKSNLTLVN QSKGYEIKNSVEFTGNGDSFLH ANHERLHTAIKFPAQSKLISTKS QFISPKHQKTRKLEKHHVCS GKAFIKKSWLTDHQVMHTGEK PHRCSLCEKAFSRKFMTEHQ THTGEKPYECECGKAFKKSR LNIHQKTHTEKPYICSECGKG FIQKGNLIVHQRIHTGEKPYICN ECGKGFIQKTCLIAHQRFHTGK TPFVCECGKSCSQKSLIKHQ RIHTGEKPFECSECGKAFSTKQ KLIVHQRTHTERPYGCNECGK AFAYMSCLVKHKRIHTREKQE/ CSQGGKSSCREAQLITHQ*CHA GEKLC*RGDYTSAFCGPSPDIKH QRP/HSQNRN/CSPOGTASGQM CSLRR*QWICTGQKPCCECEG CAFRDQLCLILCYRKPIGRK/PD LCGKGLSKNL*FIMWPKSIHCE
22231	52599	C	22359	90	344	
22232	52600	A	22360	2	543	
22233	52601	A	22361	373	490	
22234	52602	A	22362	111	396	GAPPGIWCLSLWACRALSPSS AAQHRKRPSALSPATPAGSRPL RRCAPGFAATKTQRVQRRPPRR *GAAAGAGGS*RPLCGVVIHSV LHNTPE

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22235	52603	A	22363	1902	3474	VPQRSTGSGRRASARRPLRAPD PCAAAPRVSPQPRPSECSGGR GGSKTWAKRNAGKELTDRNW DQDEAEAEVGTFSMAEEVLK NRAIKKAKRRNVGFESDTGGA FKGFKRFGGYPSEEEFSGFGVS GAGGKPLEGLSNGNNITSAAPP FASAKAAADPKVAFGK*LPSPS RLLVDKNVSNPKTNGDSQQPSS SGLASSKACVGNAYHKQLAAL DCSVRDWMVKHANTNSLCDL TPIFKDYEKYLANIETANTGN SGRNSSESSEKVAETQSPSLF GSTKLQQUESTFLFHGNKTEDTP DKKMEVASEKKTDPSSLGATS ASFNGKKVDSSVLGSLSSVPL TGFSFSPGNSSLFGKDTTQSKPV SSPFFTKPLEGQAEQDSGECKG GDEEENDEPKVVVTEVKEED AFYSKKCKLFYKKNFKEKGI GTLHLKPTANQKTQLLVRAATL NLGNILLNVLPNMPCTRITGK NNVLIVCPNPPIDEKNA/TMP VTMLIRVKTSSEADELHKILLE
22236	52604	C	22364	65	283	
22237	52605	A	22365	3	419	
22238	52606	A	22366	1	512	CGRPPWKTGQRSPQSPCPGSSG SGRGIPAAWHGEGPEAVLQ GHRAGRGDPACRGLCCLPSQL GGPTSPSTSAASRACGSRGAATL VVVKVWFYHP/CRRPSWARGS ATARMRCTSPA TRMRTTCRPS TSASRWRASSMSRWPGAASAR TGRSTTTGHLRPHHRA PGDG
22239	52607	A	22367	1	2940	MRRRRKVAIIHAGRPRAAAA SSEQRGRGPAARRAGGAEEA ASGVTGGGGGGAGQHAGGLG FSAGGRAPSRPLCGSMPARLF SKQEVGYCGLPAPASSLRSRG HRQRIYSLNQLLQEARLRTGRAR PGEGPGWLVTDKGGLGWGSSH SQAQGPDSQAAWGRAPPAHGS SPAFLQVLDVRPQSSRYLPPGT RVCAIYWSQKSRCLYPGNVVRA PPPCFGRLLGVPAASSGVPSTG ASGDEDELDVVVEFDDGD
22240	52608	B	22368	215	356	
22241	52609	A	22369	282	499	YLLHCLPSDPPSFNTSPDGRGR RRRQRRRRSDPPGRGRTKSTR VPGSNRFV*FHR*GRLKEWM ANQDTN

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22242	52610	A	22370	105	619	ACQASSHSGPVWGPGERITTPG A*ASARREPSRNQHPLWVTE Q/I*IASPRTVANPLVPARPTTGP RTNKP KHLIKQGRGQPRQPLSG STGGAGESPASGCAGGQPAHR VWIAPAARGCGQHTPWKAPAG NGQSPRPASATRMIGPSPSLSP APPAVVGVAAALGSRNRCIL
22243	52611	A	22371	1	441	
22244	52612	A	22372	10	621	LRQLERGLAKGQSTPVDRLPG PDPSPAGTLAGAALPPLEPPAPC LCQDPQEDSVEDEEPPGSLGLP PPQAGVQAAAAVSGTTQPLG TGPRVSLSPHSPLLSPKVASMD AKDLALQILPPCQVPPSPGQSP AGPQGLSAPEQQEDEDSEEDS PRALGSGQHSDSHGESSAELDE QDILAPQTVQCPAQAPAGGSEE T*LRQLERGLAKGQSTPVDRLP LGPDPSPAGTLAGAALPPLEPP APCLCQDPQEDSVEDEEPPGSL GLPPPQAGVQAAAAVSGTTQPL LGTGPRVSLSPHSPLLSPKVAS MDAKDLALQILPPCQVPPSPGQ QSPAGPQGLSAPEQQEDEDSE EDSPRALGSGQHSDSHGESSAE LDEQDILAPQTVQCPAQAPAGG SEETIAKA

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22245	52613	A	22373	1	2271	MPGELLAPSCCCRGGPTRDRD LSCDAAAATITLGGDRREPCAL TPGPShLALTLFSPKPGARPQPE GASWDAGPGLSTEAPLPATLE PRIVMGEETCOALLSPRAARTA LRDQEGWGL/SPQGSMDEREL HPAGTPEPPSSSESL.SADSSSW GQEGHFDDLDFLANDPMIPAAL LPFQGLIFQVEAVEVTPLSPEE EEEEAVADPDPSASYAEADDE RLYSGEPHAQATLLQDSVQKTE EESGGLRYDTASAPTRHRSLSV PKACSCSHDCAP*AG*RGPHLTP GLRYDTASAPTRHRSLSPKAC GCSHDCVPAG*RGPHLTPGLRY DTASAPTRHRSLSVSPKACSCSH ACVPAG*RGPHLTPGLRYDSTS ASARHRPHLRSRSGCGHPSNL AGRSRLCPRDRACGHGSGS/ SAWTGSMGSA/RHR*WG*A*L TPKGDPPG*EPAGRRPEG/TGT GTWTQPGGLHGCRPGLADL AALPSASSLWAPEPSWPS/SALS PRAARG*QPGGRLASGPGLGP AFG*PRGVISRAGRAGHLGSSD RAVSSPGAQSRREGPSRRQ*GD HRQSQAESQ*EEGPKGNVKAG LAADSGSHQDHHPEVQEHPCLC HRQA*CLQGDPAHAHLG/FWR GQ/T*GP/CPASASRS*EV*GAL R/DLSLGP*VST/QGPG*A*VQG KGKG/GGGGGPGGAGTA*HL
22246	52614	A	22374	2	211	
22247	52615	A	22375	43	241	
22248	52616	A	22376	184	332	
22249	52617	A	22377	1292	1923	KAGARGNQEGTMASSSG/TQK VLTIIPRCYQ*K*SKETLP*CSG WPNDARIEAVVNC/CTEFNHLIS SEANEICNKSEKKTISPEHVIA LES/LGSGSYISEVKEVLQECKT VALK/RRKASSRFGKPLGPEEE/ LFGDQANKELFGKSLDQQQAE/ LAQQ/EWLQM/QQAA/HQA/Q/ AAASAKCI*SRRSFSGMEEDG GWISEIPPAEFLFL
22250	52618	B	22378	1	1701	
22251	52619	A	22379	1	147	



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22252	52620	A	22380	1	484	IRHEGRGQRGMELVQVLKRG LQQTGHGG/LFRGYLRVFFRT NDAKVGTLVGEDKYGNKYIE DNKQFFGRHRWVVYTTMENG KNTFDWDVDSMVPEWHRWL HSMTDDPPTTKPLTA/RKFHLG RNH*ISTWTGAPQEQYVPYSTT RK/KIQEWIPSTPYK
22253	52621	A	22381	3	258	DMAAQIAEGMAFIEERNYIHRD LRAANILVSDTLSCKIADFGLA RLIED/FTTKSDVWSFGILLTEIV THGRIPYPGMTNPEVIQN
22254	52622	A	22382	1	738	
22255	52623	A	22383	233	1898	GAGPTGYLRRLPGWAGTGMGC GCSSHPEDDWMENIDVCENCH YPIVPLDGKGTLLIRNGSEVRDP LVTYEGSNPPASPLQDNLVIAL HSYEPSHDGDLGFEKGELRLIL EQSVIEWWKAQSLTTGQEGFIP FNFVAKANSLEPEPWFFKNLSR KDAERQLLAPGNTHGSFLIRES ESTAGSFSLVSRDFDQNGQEVV KHYKIRNLNDNGGFYISPRITFP LHELASAITPIASDGLCTR/LSRP CQTQKPKQKPPWWEDEWEV PRETLKLVERLGAGQFG/RCGW GTTTGTTKVAVKSLKQGSMSA GR/LPAEANLMKQLQ/HQRL/VR LYAVVTQEPYIITEYMENGSL VDFLKTSPGKLTINKLLDMAA QIAEGMAFIEERNYIHRDLRAA NILVSDTLSCKIADFGLARLIED NEYTAREGAKPIKWTAPPAI*S RGNSPPRSDVWSFGDLLPEIFT HGRIP/YPPQGI/NPELIQKLERGY RMVRPSNCPKELYQLMR/LCW KERPED/RPTFDYLRSLVEDFFK RHRRASNQPQALREPLRKLPLCF
22256	52624	A	22384	3	203	
22257	52625	A	22385	2	467	
22258	52626	A	22386	1	468	
22259	52627	A	22387	1	645	

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22260	52628	A	22388	821	2637	AAASAWRAHSTTAAGRRTAL FRSPGPNTRDTRRRRRATAPD CCRPATSPRALDWTSLHTRRH VQNYLQWSYWQVLVSRWIAF AGLAMADYLSGGTGYVPEDG LTAQQLFASADDLTYNDFLILP GFIDFIADEVDLTSALTRKITL K TPLISSPMDTVTEADMAIAMA MGGIGFIHNNCTPEFQANEVRK VKNFEQGFITDPVVLSPSHTVG DVLLEGKMRHGFSGIPITETGT M GSKLVGIVTSRDIDFLAEKDHT TLLSEVMTPRIELVVAPAGVTL KEANEILQRSKKGKLPVNDCCD ELVAIHARTDLKKSRYPLASK DSQPQLCGAAVDTREEDKYR LDLLTQAGVDVIVLDSSQGSNV YQYARVLYFKQYPHLQVVLG GNVVTAQAQKNLIDAGVDGLR VGMGCGSICITQEVMACGRPQ GTCCVTR*AEYARRFGVPIAD GGIQTGVGHVVKALALGASTVM MGSLLAATTEAPGEYFFSDGVR LKKYRGMGSLDAMEKSSSSQK RYFSEGDVKVIAQGVSGIQDK GSIQKFVPYLIAGIQHGCQDIGA RSLSVLRSMMSYSELKFEKRT MSPQIEGGVHGLHSYEKRLY
22261	52629	A	22389	2	332	
22262	52630	A	22390	3	608	MTAVHAGHLNLKWDPKSLEIR TLAAERLVTVTTLVNTNSKGP SDKKRGHSKKVHVLAASVEQA AENFLEKEDKIVKESQFL*E*LL AAVEYVRKQ/GKECLRPSLEEH LEGIISGAALMGDSSCKHDDHR ERIAAECNTVLQACRTCF/SEY MGNAAGCKERSNLSAIDKMT KKTRDLRRQLHKA VMDHVS D S FLETNPVLL
22263	52631	A	22391	2	2864	

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22264	52632	A	22392	14	2897	PDWRETKQRPSASGLWNLALA QLAAEMTAVHAGHLNLKWD KSLEIRTLAVERLLEPLVTQVT TLVNTNSKGPSDKKRGHSKKV HVLAAASVEQAAENFLEKEDI KESQFL*E*LLAAVEDVRKQG DLMKAAARRRSHDDPCSSVEQ GNMVQAA*TLASVTCLLILA\ DMGNVYKLLVQLKVVEDGILK LRNAGNEQDLGIYKALKPEV DKLNIMAAKRQQLKDVGHHRD QMAAARGILQKNVPILYTAS
22265	52633	A	22393	1	1584	
22266	52634	A	22394	1	3519	
22267	52635	A	22395	3	673	
22268	52636	A	22396	1	1574	DVPRDLEVVAAATPTSLISWDA PAVTVRYRITYGETGGNSPVQ EFTVPGSKSTATISGLKPGVDYT ITVYAVTGRGDSPASSKPIISIN RTEIDKPSQMQVTDVQDNSISV KWLPSPPVTGYRVTTTPKNGP GPTKTKTAGPDQTEMTIEGLQP TVEYVVSVYQAQNPSSGESQPLV QVAVPTIPAPTDLKFQVTPTS LSAQWALPNVQLTGYRVRVTP KERTGPMKEINLAPDSSSVVVS GLMVATKYEVSVYALKDRTLTS GPAQGVVTTLENVSPRRARVT DATETTITISWRKTETITGFQV DAVPANGQTPIQRTIKPDVRSY TITGLQPGTDYKIYLYTLNDNA RSSPVVIDASTAIDAPSNLRLA TTPNSSLVSWQPPRARITGYIHK YEKPGSPPREVVPRPRPGVTEA TITGLEPGTEYTIYVIALKNNQK SEPLIGRKKTVQKTPFVTHPGY DTGNGIQLPGTSGGQPSVGQQ MIFEHGFRTTPTTATPIRHR PRPYPPNVGQEQALS

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22269	52637	A	22397	3	2382	QTEMTEIQLQPTVEYVVSVYAQ NPSGESQLPLVQTAVTNIDRPKG LAFTDV/DVDSIKIAWESPPQQGV SRYSRVTYSSPEDGIHELFPAPDG EEDTAEQLQLRPGSEYTVSVVA LHDDMESQLIGTQSTAIPAPTD LKFTQVTPISLSAQWTPPNVQL TGYRVRVTPKEKTGPMKEINLA PDSSSVVVSGLMVATKYEVS YALKDTLTSRPAQGVVTTLEN VSPRRARVTDATETITISWRT KTETITGFQVDAVPANGQTPIQ RTIKPDVRSYTITGLQPGTDYKI YLYTLNDNARSSPVVIDASTAI DAPSNLRLFLATTPNSLLVSWQP PRARITGYIIEKPKGSPPREVV PRPRPGVTEATITGLEPGEYTI YVIALKNNQKSEPLIGRKKTDE LPQLVTLPHPNLHGPEILDVPST VQKTPFVTHPGYDTGNGIQLPG TSQQQPSVGQQMIFEEHGFRRRT TPPTTATPIRHRPRYPNNGEEI QIGHIPREDVDYHLYPHGGLN PNASTGQEALSQTTISWAFQD TSEYIISCHPVGTDDEPLQFRVP GTS/TSATLTGLTRGATYNIIVE ALKDQQRHKVREEVVTVGNSV NEGLNQPTDDSCFDPTVTVSHYA VGDEWERMESGFKLLCQCLG FGSGHFRCDSSRWCHDNGVNY KIGEKWDRQGENGQMSCTCL GNGKGEFKCDPHEATCYDDGK
22270	52638	A	22398	48	7500	GATMACCAAQGEERVTPCASG KRGPAAATSLVLWIPSVPPVPF PTLWPPSWRRQPPGGIRRDFS RRLRREANLVA TCLPVRA SLPH RLNMLKGGPGGLLLAVLCLG TAVPSTGASKSKRQAQQMVQP QSPVAVVSQSKPGCYDNGKHQY INQQWERTYLG NVLVCTCYGG SRGFNCESKPEAEETCFDKYTG NTYRVGDTYERPKDSMIWDCT CIGAGRGRISCTIANRCHEGGQS YKIGDTWRRPHETGGYM
22271	52639	A	22399	1	403	NSTNKRGRFCFITFKVEIEMKKY HNVGLSKCEIKVAMSKEQYQQ QQQWGSRRGFAGRARGRGGG PSQNWNQGYSNYWNQGYGNY GYNSQGYGGYGGYDYTGNN YYGYGDYSNQSGYGVVSRRG GHQNSYKPY

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22272	52640	C	22400	36	214	
22273	52641	A	22401	3	182	
22274	52642	A	22402	223	452	LESMTIFPYSDDKRAQYIFIQKD LLKKPVRRHYIMTLSHWAFNT RLALQYWKGHKTQIDSEA*Q LRNKTMKANFF
22275	52643	A	22403	1	1037	MSEEQFGGDGAAAAATAAVG GSAGEQEGAMVAATQGAAAA AGSGAGTGGGTASGGTEGGSA ESEGAIDASKNEDEGHSSNS PRHSEAATAQREEWKMFIGGLS WDTTKDLKDYFSKFGEVVD TLKLDPTGRSRGFGFVLFKESE SVDKVMQDQKEHKLNGKVIDPK RAKAMKTKEPVKKIFVGLSP DTPEEKIREYFGGFGVEVIELP MDNKTNRKRGFCFITFKEEPPV KKIMEKKYHNVGLSKCELVVA MSKEQYQQ/QQQWDSRGGCA GRAVRGRGGQAEQYGGKGIQA RWAIKNSYKPYLNYSICPPYP TAGTSLQALCRADFRFSQARSM
22276	52644	A	22404	299	1508	HYVGGSSSGDGAAARAT/AR AVGGSAGEQFGAMVAATHG ARGGVWEADAATGGGTASGG TEGGSAE/SEGAKEYASKNEED EGHSNSSPRHSEAATAQGRM/ KMVIGGLSWDTITKKDLKDYFS KFGEVVDCTLKLDPTG/QSRGF GFVLFKESESVDKVMQDQKEH K/LNGKVNPKRAKAM/KTKE PVKKIFVGLSPDTP/EKIREYF GGFGE/VEVIELPMD/NKTN*RG RGFC/UTFKEEPPVKK/MEKK YHNVGLSKCEIKVLLNEQYQ QQQQW*SIGGFAGIALVIGGGP SQNWNQGYSNYWNQGYGNYG YSS/QGYG/GYGGYDYTGYN Y/YGYGDYSNQSGYGVYS/RR GGHQ/NSYKPHTKFIPCNLFPN RWLKQYFPNLKIQFERGSCHELL
22277	52645	A	22405	3	189	ESEPERKARTDEVLP/EEAAP RRKMRTTRTTCPVSR/AA*QL LLQKLLQRRRKGSCSRG
22278	52646	B	22406	1	1356	
22279	52647	C	22407	135	260	
22280	52648	A	22408	1	1740	
22281	52649	B	22409	80	371	

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22282	52650	A	22410	257	1200	ISWCCMEQKKRLP\FSKREGVPY EFHCPSDESSPLLRC AFCIGGMS VKEQMETHRPLQTTRGPGPGP LFTDGPDPPEAFHLGLLSIREM VSTKVKPVGQSESEPRVKPLEL DDASASGGVHMMVATPGRLMD LLQKKMVS LNICRYLAL DEAD RMIDMGFEGDIRTIFSYFKHTSA AAIGLQ LALDGGT GSGQKGK EEFPSSMSAVSTGLEASACCL VTMDPLET LSRMASSTSSMSL ARAWLSPEPGDSPGMVGGPLR ELPGMAPLECGEFQRPESLCAD RNELGQSPEFPQEEDEDED DEEDEDE
22283	52651	A	22411	107	2069	GGVSPWRACVQQRMESEPER KRARTDEVLP EEAAPRRKMRT TRTTCPMCRYGSAGSLLQKLL QR\RRKGAAEEEQD SGSEPRG DEDDIPLGPQSNVSLDQHQL \KEAESA AKESCQGRKQLEGK KEKILGRIVCRAELDVK*KAD WLKGITVLIDPIKTQLGLPPR/Y MFLSMSEERHERVRKKYHILVE GDGIPPPIKSFKEMKFPAAILRG LKKKGIIHHTPIQIQGIPTILSCR DMIGIAFTGSGKTLVFTLPVIMF CLEQEKRLPFSKREGPYGLIICP SRELARQTHGILEYYCRLLQED SSPLLRCALCIGGMSVK\EQ\ME TIRQGVHMMVATPG/RALMDL LQKKMVS LDICRYLAL DEADR MIDMGFEGDIRTIFSYFKGQRQ TLLFSATMPKKIQNF\KSALVK PVTINVGRAGASLDVIQVEVEY VKEEAKMVYLLCLQKTPPPY LIFAEEKADVD AIHEYLLKGV EAVAIHGGKDQEERTKA\IEAFR EGKKDVLVATDVASKGLVFPA IQHVINYDMP EEIENYVHRIGRT GR\SGNTGIATTFINKACDESFLI DLKALLVRKPKQKVPPVLI\QV L\HCGGWS PMLDIGRSSRGCAF CGGLGH\RTDCPKL\EA\MQTK QVSNIGRKDYLAHSSMDF
22284	52652	A	22412	435	1428	

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22285	52653	A	22413	3	597	HKMAPYSPVLVTRLQKALGVRQ YHVASVLCQRAKAMAMSHFEPN EYIHYDLLEKNINIVCKRLNWP LTLLKIVYGHLDLDDPASQEIEQ GK/S/YLWLWPDHVAMLFQISKI GATTSVFPYNHRMRRYLSK/TG RTDIANLADEFQDHLVPDPGCH YDQLIEINSELKPHINGPFTPD QAHPVAEVGKVAEKEGWPLDI RVGLT
22286	52654	A	22414	29	512	
22287	52655	A	22415	1	543	
22288	52656	B	22416	271	719	
22289	52657	A	22417	1	2438	SVIIKMAPYSLLVTRL*KALGV RQYHVGSVLCQRARVAMSHF EPNEYIHYDLLEKSNIVRKRLN RPLTLSEKIVYGHLDLDDPASQEIE RGKSYLRLRPDRVAMQDA/TA QMAMLFQISSGLSKVA/VPSTIH CDHLIEAQVGGEE/DL/RRAKDI NQEVYNFLATAGAKYGVGFV KPGSGIIHQILENYCVPWLSF*L GPDFHTPNGGGLGGI/CIGSGC WPNAWEWNGLGIPWELCKPK VIGVKLTGSLGWSPKDVILK VAGILTVKGGTGAIVEYQGGPV DSISCTGMATICNMGAIEGATT SVFPYNHRMKKYLKSTGREDIA NLADEFKDHLVPDPGCHYDQLI EINSELKPHINGPFTPDLAHPV AEVGKVAEKEGWPLDIR/VGLI GSCTNFKLWKI/WGRSAA VAKQ ALAHG/LKCKSQF/TITPGFPRI RATFE/RDGYAQILRDLGGVVL ANACGPCIGQWDRKDIKKGEK NTIVTSYNRNFTG/RNDANPET HAFVTSPEIVTALAIAAGTLKFN PETDYL/TGHGWARSFRLGGSR AD*VFPKGEF*PRGRDITYQHPP K/DSSGAACWDLSPTSQRLQLL EPFDKWDGKDLEDLQILKVKG KCTTDHISAAGPWLKFRGHLD NISNNLLIGAINIENGKANSVG NPVTQEFGPAPD/LARYYKKHG IRWVVGIDENYGE/SSREHAA
22290	52658	A	22418	14	260	RLCIGDAGVSPVCGP/CSAGGGP R*LNLEGGEESSVPRGG/CCSP VTATTAPGPCFPK*SDGSGCAE APDSGE/CS*ALGPHCGD

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22291	52659	A	22419	160	460	RLCIGDAGVSPVCGPLSAGGGP R*LNL*GGESSSVPRGG/CCSP VTATTAPGPCFPK*SDGSGCAE APDSGNGCAFCAIRSPHRHGP KPARERLLLTGL
22292	52660	A	22420	43	418	SLGCAEQN/FAIAIQPGMAQEE RLSRYQQKDFQRRILVATNLF GRGMDIERVNIIVFNNDMPEDS DTYLHRVARAGRFGTKGLAITF VSDENDAKILNDVQDRFEVNV AELPEEIDISTYIEQSR
22293	52661	A	22421	1	592	RFSKYMPSVKVSFVRGLSIKK DEEVLKKNCPHVVRTRARILA LVRNRSFSLQNVKHFVLDCECD KMLEQLDMRRDVQEIFRLTPHE KQCMMF/ERLSRYQQFKDFQRR ILVATNLFGRGMDIERVNIIVFN YDMPEDSDTYLHRVARAGRFG TKGLAITFVSDENDAKILNDVQ DRFEVNV AELPEEIDISTYIEQS
22294	52662	A	22422	2	575	
22295	52663	B	22423	100	412	
22296	52664	A	22424	2	441	
22297	52665	A	22425	682	1032	
22298	52666	A	22426	1	1324	MAEQDVENDLLDYDEEEEPQA PQESTPAPPKKDIKGSYVSIHSS GFRDILLKPELLRAIVDCGFEHP SEVQHCEIPQAILGMDVLCQAK SGMGKTAVFVLATLQQIEPVN GQSGQVHIFGLHIGARALVISEH ILKDEGAVEGCGVVQCLMARV TVLVMCHTRELAFQISKEYERF SKYMPSVKVSFFGLSIKKDE EVLKKNCPHVVGTPGRILALV RNRFSLSLKNVHFVLDCECDKM LEQLDMRRDVQEIFRLDTTPR KQCMMFSAITL/SKDI/RPV/CRK FMQDPMEVFVDEETKLT/LHGA LQQYYVKLTSEKNRSLFDLLA DVLEFNQV/IIFVKSVQRCMAL AQLL/VEQN/FAIAIHRGMAQE ERLSRYQQKDFQRRILVATNLF FGRGMDIERVNIIVFNNDMPEDS DTYLHRVARAGRFGTKGLAITF



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22299	52667	A	22427	9	1535	EAQQLVSRPAENRSWKLLA ARGEERGASIMAEQDVENDLL DYDEEEEPQAPQESTPAPAKKD IKGSYVSIHSSGFRDF/LCLKPE LLRAIGGLVAFEHPSEVQIH\CI PQGHPGAWDVLLPGQSPGMGK TAVFRCWPLQQL\EPVNGQVT VLVM\CHTRELAFQISKEYERFS KYMPSVKVSVFFGGLSIKKD\IE EVMKKNCPHVVVGTPGRILAL VRNRSFSLKNVKHFVLD\EC DK MLEQLDMRRDVQE\IFRLTPHEK QCMMF SATLSKDIRPVC RKFM QDPM\EVFVDD\ETKLT\HGLQQ YYVKLKDSE\KTRKVFDLWD\V LEFNQVDILRQGQCKRCMAL\A QLL\VEQNFP\AQWPI\HRGNGPQ KERPVNAYQASSKDFPSGRDPL VATQILFG\RGMDIEAKSN\VFN YDMP*GLGTPYL\HRVARRGR FGTKRP*PFTFVSDG\NDA\KILN DV\QDRF*S*MWAE\PEEIDIST YIEQSR\LNHQLARAGPPGAAPH AASPLSRRHC
22300	52668	A	22428	3	290	
22301	52669	A	22429	1	690	MNQTSEKEIISKEQGNVKAAGA SDVVL\YKIDVPANRYD\LLCLEG LVRGLQVQKERNFFLT\VEVEK SKTKVEQIQCLCSQED\ADKLG VDISATKAVHISNPKTAEFQVA RTTLLPGLLKTIAANRKMP\PL KLFEISDIVIKDSNTDVGAKNYR HLC\AVYYNKNPGFEI\IHLLDRI MQLLDVPPGEDKGGYV/IQSVG KLGVLHPDVITKFELTMPCSSL EINIGPFL

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22302	52670	A	22430	2	1834	GTRPTVSVKRDLLFQALGRYTD DEEFDELCFEGLLEDEITSKEE IISKEQGNVKAAGASDVVLYKI DVLATRYDLLCLEGLVRGLQV FKERIKAPVYKRVMPDGKIQKL IITEETAKIRPFAGAAVLRNIKFT KDRIYDSFIELQEKHLQNICRKR ALVAIGTHDLDTLGGPFTYTAK RPSDIKFKPLNKTKEYTACELM NIYKTDNHLKHYLHIIENKPLYP VIYDSNGVVLSMPPIINGDHSRI TVNTRNFIECTGTDFTKAKIVL DIIVTMFSEYCNQFTVEAAEV VFPNGKSHTFPELAYRKEMVR ADLINKKVGIRETPENLAKLLT RMYLKSEVIGDGNQIEIIPPTR ADIIHACDIVEDAAIAYGYNNI IQMHSPENFTP*ANQPLNKULT ELLRHDMAAAGFH*STLPLAL CSQGRYWLKDLGVGYLWQQR AVHISMPKTAEFQVARTTLLPG PP*RP*AANRKVPLPLKLFESL DIVIKDSNTDVGAKKTTQSL VAGLLPTKNPGFEINSWGCWD RIMAVCSDVPPGGRQGGDM*F KASEGPAFFPGAMCRDSFARGQ SLGKGLVGLHPDVIHQIWS*PLP CSSLEINIGPFL
22303	52671	A	22431	1	304	
22304	52672	A	22432	1	642	
22305	52673	B	22433	1	423	
22306	52674	A	22434	1	525	LHEHPVTESPMNCVSITLQSLY MKSVAGIGQTGKIEPVVPLLL WFAESGAMGETLHTFYTLV LMPKVMHYAQVLLALGCVL LLVPVICQIRSQ/DRCWPEGSPG *QPFAPPPA*TDIILWTEPATLM AEVSACCAPELPPPHRVPIIG AQAEVNEPGGPAFRALLDPGA
22307	52675	A	22435	3	483	VRSGNSHGEVSKGRMCLAGA LPLPGACAAVLVLLVILPEPLRC PLHTLYGGRDPVDSIRLWROA GEFRHKSNTFNNDTVSFLFY RTFQFQPSKSHGESDYIVMPN ILVLNKRSTWISVCFVHGCI SRTGPRTESMHSKSLWKAWLA APGLPL

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22308	52676	A	22436	1	1623	RRRPRLPGAEPCEPRVGPARRA DMGCSAKARWAAGALGVAGL LCAVLGAVMIVMVP SLIKQQV LKNVRIDPSSL SFNMWKEIPIPF YLSVYFFDVMNPSEILKGEKPQ VRERGPYVYK/ESSRHKSNTIFN NNDTVSFLEYRTFQFQPSKSHG SESDYIVMPNILLGVAVMMME NKPMTLKLIMTLAFTTLGERA FHGTALWGEVMMWGYKDPLVN LINKYFPGMFPFGGGFGVFAEL NNSDSGLFTVFTGVQNSRIHLV DKWNGLSKVDFWHSDDQCNMI NGTSGQMWPFPMTPESSLEFYS PEACRSMLKMYK/ESGVFEGIP TYRFVAPKTLFANGSIYPPNEGF CPCLESGIQNVSTCRFSAPLFLS HPHFLNADPVLAEAVTGLHPN QEAHSLFLDIHPVTIIPMNC SVK LQLSLYMKSVAIGQGTGKIEPV VLP LLWFAESGAMEGETLHTF YTQLVLM PKVMHYAQVYVPS WALGCVLLLVPI/LSCQIRSQE KCYLFWSSSKGSKDKEAIQA GSE*SLMTSAPKGSVLQEAEL
22309	52677	A	22437	198	1062	STCVMERNLLYSLLSSHLSPHF STSVTS AKVAVNGVQLHYQ/HF GEGDHA VLLLP GMLGSGETDF GPQLKNL NKKLFVVAVWDP/R GYGHSRPPDRDFADFFERDAK DAVDLMKALKFKKVSLLGWS DGGITALIAAAKYP SYIHKMVI WGANA YVTDERPAG*YEGHP RMVSQMGVEGKESL*EALYG YDYFARTCEKWVDGIR/QFKHL PDGNICRHLLP/RVQ/CPPLIVH GAEKDPLVPRFHADFIHKHVKG SRLHLMPEGKHNLHLRFADFE NKLA\EDFLQ
22310	52678	A	22438	223	393	AQASPPLLPP*ERSNVPCPIS

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22311	52679	A	22439	524	1516	FILEDITGYVMAPIDGLLCREPR RGLYLEGTKPMTLFAQJFLNSV GDLLDLPLSPSTKNGSLKVFKR WDMGHCSALIKVLPGFENILFA HSSWYTYAAMLRIYKHWDNFII DKDTSSSRLSFSSYPGFLESDD FYILSSGLILLQTTNSVFNKTL KQVIPETLLSWQVRVANMMA DSGKRWADIFSKYNSGTYYNNQ YMLVGPESKAEPQSLTKGT/P VTLWEQIPTV/VRNISGTNLMFL RGKGFWA/SYNVPPFEKIYNWS GLSHC*FRKGLGPTPYDFRPH EPKIFRRDPR/DK*LIRHPMKYI MRYNNYKE/DPYSRGDPPVNT
22312	52680	A	22440	1	306	
22313	52681	A	22441	698	1613	FQFFQIFPEYKKNDFYVTGESY AGKYVPAIAHLIHSNPNVREVKI NLNGIAIGDGYSDPESIIIGYAE FLYQIGLLDEKQKKVYFQKQCH ECIEHIRKQNWFEAFEILDKLLA DGDLTSDPFLTSQNVGTGCS/NY YNFLRCTEPEDQLYYVKFLSLP EVRPAHPTLGNQTFNDGPIV* KVPCGEDTSTSPVKPW/LTEIM NNYRVLIYNGIQLGHPSVAAAP DQSAPLMGMDWKGSP/EYKK AEKKVWKIFKSDSEVA/GYIR QVGDFHQVIRGGGHILPYDQP LRAFDMINRFIYKGKWDPPYVG
22314	52682	A	22442	1	258	
22315	52683	A	22443	366	848	
22316	52684	A	22444	1	585	ECLCVSTAVRIRHEKTMTEL LRGGSFEFKDMRVPSALVTLH MLLCSIPLSGRDSDQKIQNDI IDILLTFTQGVNEKLTISEETLA NNTWSLMLKEVLSSILKVPEGF FSGILLSELLPLPMQTQVS LPYNMHLINDCSNTF*KASDSV KKQKPSSPFLPKRHKITG*GGD KTETSWSLRKYGGKNFK

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22317	52685	A	22445	625	2700	YIRGHSTPRKLWSMHLHVQAK LLQEIVRSFSGTTCQPIQHMLRR ICVQLCDLASPTALLIMRTVLD LIVEDLQSTSEDKEKQYTSQTT RLALLDALASHKACKLAILHL INGTIKODERYAEIFQDLLALVR SPGDSVIRQQCQVEYVTSILQSLC DQDIALILPSSSEGSISELEQLSN SLPNKELMTSICDCLLATLANS ESSYNCLLTCVRTMMFLAEHD YGLFHLKSSLRKNSSALHKLK RVVSTFSKDTGELASSFLEFMR QILNSDTIGCCGDDNGALMGSR RGAHTSRTMSINAAELNQLLQS TEESPEDLFLELEKLDLEHSD DDNLYSLD**RGLKQMLESSG DPLPLSDQDVEPVLAPESLQN LFNNRTAYVLADVMDDQLKS MWFTPFQAEIGITDLDLVKVD LIELSEKCCSDFDLHSELERSFL SEPSSPGRTKTTKGFKLGKHHK ETFITSSGKSEYIEPAKKEFMLC PPPRGRGRGGFGQGI RPHDIFR QRKQNTSRPPSMHVD DFI VAA E\SK EVVPQDGI/PSHPNRPLKVS QRISSRVGFSGNRGGRGAFHSQ NRFFTPPASKGNYSRREGTRGS SWSAQNTPRGNYNESRGGQSN FNRGPLQLRPLKFPTG*PAPK SLGTRAS*MVRGG/ LGTFPGLS AKLAASGGSRGKFVSGGSGRG
22318	52686	A	22446	2487	3161	TWWLHISIIIPGGKKSYPRLGR GKRFA TFVLLVGGELCLTYSAP PSIHPILRSEAECLNYSIFSFLA PAGEFALPRSFDCPRVRLRAL RLALLILLTFILCWTPYYLLGM WYWFSPHMLTEVPPSLSHILFL LGLLNAPLDPSPSYGAFTLGCR RGHQELSIDSSKEGSGRMLQEEI HAFRQLEVQKTVTSRRAGETK GISITSI*S*QSM*EQNSKSLVP
22319	52687	A	22447	232	337	
22320	52688	A	22448	1	1449	
22321	52689	A	22449	1	2004	

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22322	52690	A	22450	3	1558	APARDRAGGRRALPRLPAAS ARARGLTRALSAMACRQEPQ PQGPAAAGAVASYDYL VIGGG SGGLASARRAAELGARA AVVE SHKLGCTCVNVGCVPKVMW NTAVHSEFMHDHADYGFPSCE GKFNWRVKEKRDAYVSR LNA IYQNNLT KSHIIRGHAFITSD PKPTIEVSGKKYTA PHILIATGG/ MVPSTPH*EPRSRGASL*ITSDG FFQLEIIVPAAASLVGARLP.LSV EMAGIL/SALGSKTSLMIRHDVK VLRSFDSMISTNCTEELNAGV EVLKFSQVKEVKAL/SGLEAS MVTAVPGRLPVMPMPD VCL LWAIIGVPNTKDL SLNKLGIQT DDKGHII VDEFQNTNVKGIYAV GDVCGKALLTPV AIAAGRKLA HRLFEYKEDSKLDYNNIPTVVF SHPPIGTVGLTEDEAIHKYGIEN VKTYSTSFPMYHAVTRKRTK CVMK MVCANKEEKVVG IHMQ GLGCDEMLQGF A VAVKMGT KADFNTVAIHPT SSEELVTLR
22323	52691	A	22451	51	464	
22324	52692	B	22452	103	1184	
22325	52693	A	22453	52	148	
22326	52694	A	22454	1	3282	
22327	52695	A	22455	145	436	
22328	52696	A	22456	1	3622	MPGYRAGPFEEAFDREDERQIE CQGRGVDRKITGEHTTFSGRSG PDHELTLDSGKGCTSRMVPASA ASEDRRKLPIIVEDEGGPTRSRA CSSPARGSRPPPSAIGCSPVAQA SDSAAGPARRTALQSLSSWLG Y QIDRHSVPVYVFKSPLFSVIMAP KHKSSDAGNLD RPKRSRKVLPL SEKVKVLDLIRKDKKSYAEVA KIYKNESSIREIVKKEKEIRASF AVSPPTAKVTATVRDKCLVKM EQALHLWVEE
22329	52697	A	22457	3	422	VVELRCQDKEGNPAPEYTWFK DGIRLLENPRLGSQSTNSSYTM NTKTGTLQFNTVSKLDTGEYSC EARNVGY/PQVPGKRMQVDD LNISGIIAAVCGLGVCYAQRKG YFSKETSFKQSNSSSKATTMSE NDFKHTKSFI
22330	52698	A	22458	1	208	
22331	52699	A	22459	122	321	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
22332	52700	A	22460	2	1169	HTPKTEQTPIPLGEDPPLGSQLR RRPGEGETDIPSRVPLPPLPT LCSFPAPVQGPASPAPAAAGT LDLLRAAGCRPGKMARRSRHR LLLLLLRLYLVAALGYHKAYGF SAPKDQVVTAVEYQEAILAC KTPKKTSSRLLEWKKLGRSVSF VYYQOTLQGDFFKNRAEMIDFNI RIKNVTRSDAGKYRCEVSAPSE QGQKPGVEDTIVTEVLGDVHVL APAVPSCVPSALSGTVVELR CQDKEGNPAPEYTWFKDGIRLL ENPRLGSQSTNSSYTMNTKTGT LQFNTVSKLDTGEYSCEAIRNS VG*SEGPCETNASR*SQHKVGII GSRSL*WALVDFPFVGLVYSYG SEKATFSKETSFKSNSSSKAT TMSENDFKHTKSFIH
22333	52701	B	22461	57	168	
22334	52702	A	22462	1	682	
22335	52703	A	22463	398	1465	GTFPPSGLITGKKRKALLGACD CTQIVKPSGVHLKLVLRFSDFG KAMFKPMRQQRDEETPVDFFY FIDFQRHNAEIAAFHLDRILDFR RVPPTVGRIVNVTKEILEVTKN EILQSVFFVSPASNVCFPAKCPY MCKTEYAVCGKPHLEGLSLA FLPSNLNAPRLSVPNPWIRSYTL AGKEEWEVNPVLYCDTVKQIYP YNNSQLRLNVIDMAIFDLIGN MDRHHYEMFTKFGDDGFLIHL DNAIRGFGGRHSHDEIPILSLLSQ CGMIKKNTLLHLQLLAQADYR LSIDVMRESLLEDQLSPVLTEP HLLALDRRLQTLRTVIEGCIV AHG/QQSVH*FDGPSGNSSGPR
22336	52704	A	22464	2	424	GRVGSAVIVRAWITHKYSGR DWNVKWEENLLHAYAKNYTL LQTIPPFERPFKDQHVQCLEWNN GYIWNLRANRPQCPLEN/DFRE DFHYNDTAGYFIIGSSRYVAGI EGFFGPKYYRLRSLHPAQIFNP LLEKQLAEQIS
22337	52705	A	22465	23	323	
22338	52706	A	22466	3	287	LSVQMYAQAALDGDSDQGFNL ALLIEEGTYERCWHSNEESFS PCSLAWLYLHLRLWGAHLHSA LIYFLGTFLLSILIAWTVQYFQS VSGKDL
22339	52707	A	22467	1	348	
22340	52708	A	22468	1	738	

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22341	52709	A	22469	1	507	
22342	52710	A	22470	187	3682	SILCLLSPCVVQFGKPVVSILSS RSRHSPCTKKGWEGMRKHLHT RQGHK*VHVKFPISIMGLQGM DYFHPDISIFCNLAIVIRAWITH KYRGRDWNVKEENLLHAVA KINYTLQTIPPFERPFKDHQVC LEWNMGYIWNLRANRIPQCPL ENDVVALLGFPYASSGENTGIV KKFPRFRNRELEATRQRMDYP VFTVSLWLYLLHYCKANLCGIL YFVDSNEMYGTIPSVFLTEEGYL HIQMHLVKGEDLA
22343	52711	A	22471	3	153	
22344	52712	A	22472	1	408	TEPEFPGRRFRPRMAVMAPIRT LVLLLSGALALTQTWAGSHSM RYFSTSVSRPGRGEPFIAVGYV DDTQFVRFSDAASQRMPEPA PWIEQEGPEYDEETGKVKAH SQTDRENLRALRYYNQSEAGS HTLFPR
22345	52713	A	22473	1	823	MAVVAPRTLLLLSGALALTQT WAGSHSMRYFSTSVSRPGSGEP RFSVAGYVDDTQFVRFSDAA SQRMPEPRAPWMEQEEPEYWDR QTEISKTNQAIDLESRLALRY NQSED/GPPPKTHMTHHPISDHE ATLRCWALSFP AEITLTWQRD GEDQTQDTEL VETRPAGDGT QKVASVVVPSGQEQR YTCHVQ HEGLPKPLTLR WEPSSQPTPIV GILAGLVLF GAVIAGAVVA MWRKSSDRKGGSYSAASSD SAQGS DVS LTACKV



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22346	52714	A	22474	1	1162	NSRVDDFVAVMAPRTLALLLS GALALTQTWAGSHSMRDFFTS VSRPGR*EPRFIAGVYDDTQF VRFADSDAASQRMPEPRAPWIEQ EGPEYWDQETRNMKA\HSQTD RENRLIALPLTYNQSEAGSIHTL QMMFGCERGGSDGALSFRGLP PVTAY\DGKGFTFALNE\DLRS WTAADMAAQITQRKWETPPM WRS/EQEEAYLEG/QCV\DG LRR YL\ENGKEDAA\AQRTPPKTHMT HHPI\S*\*RPL*RCW\A\AFYPC GDHT*PWQRD\G\EDQTQ\DTL V\ETRPAGDGT\AHKWAAVVVP SGEESEITPANVQ*\RVLPKPLT LKM/WEPSSPAHPSPIVGHLLA LVL/LLGAFDHLKLWAAVML KEGTAQVGK*\KIEGGSYSSR LPSQ
22347	52715	A	22475	9	316	IPAMGLETEKADVQLFMDDDS YSHHSGLEYADPEKFADSDQD RDPHRLNSHLKILMPFVKTL MVLPSVQTIWKSVDVIIAPLCT SVGRCFSSVSLQLSQD
22348	52716	A	22476	3	606	RPRTKAAMGLETEKADVQLFM DDDSYSHHSGLEYADPEKFADS DQDRDPHRLNSHLKLGFE\DI AEPVTTHSFDKVW\ICSHALFEI \SKYRM\YRSLTVFLGHSPWAFI CGEFSFATL\SCLAHLGF*WPFV \KTCLM/VFLPSVQTIWEEC*QM V/ISLAPLCYTSVGR\CFLFLFSLA TEPRNGILGPQVWRLGYCNTSF VIIT
22349	52717	A	22477	101	432	ATRDQLKAKPENLLGISRDSG RTQEGIPARVPYPPPP/PTREPPQ ST*PGRNGLLGCLGGGAPRPG WLDSEAGGAPAFHCPCG*CPRRH RRGGTRLKQLPPPPPTTVHDQPL
22350	52718	A	22478	794	1209	VKVDEVTVKHLGCRCQWRSRC PPSCSGTCLCCGAEAPCAQAQA WPPPPAAPPPTPPAPPSPD\NSSCT Q*PTPRCGT*DKDKGIFTLPKGGH P*V*\SLEHGFLKLGCPCPPPPHA LVRPPQVRFNTPHGAEPQRDQL PQST

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22351	52719	A	22479	3	1041	GSNCPLRQADPGPPRHTLFMDF VAGAIGGVCGVAVGYPLDTVK VRIQTEPKYTGWHCVRDITYHR ERVWGFYRGLSLPVCTVSLVSS VSFGTYRHCLAHICRLRYGNPD AKPTKADITLLGCGLRTRPRVP DVAH*GGQSPADADTGFLSSS GGFRLSALLAAPPMPVPPACP EPKYRGPLHCLATVAQEEGLC GLYKGSALVLRDGHFSFATYFL SYAVLCEWLSAPAGHFRPDVPG VLVAGGCAGVLAWAVATPMID GIKSRLAANGQQNGYRGLLIH CMVTSVREEGPRVLFKGLVLN CCRAFVPMVMVVFVAYEAVLRL RPGSAHHSRSPTRGATHQQLV
22352	52720	A	22480	38	453	
22353	52721	A	22481	287	413	DMDYRRGGWTVIHRKIGGRID FORVR*DYLGHYADLLREFWL
22354	52722	A	22482	1	393	MPKLLKWNVEGGACWGNLW KLPNVERLCFSEATVFRSAAQC LVVGLGLLLVSRACSHEDIAEW RGDSSVNVNVEDGSNAKDESKS NDTVCKEDCEESCDVKTKITRE EKHFMCIFHNQSLGTVCGEK GIDVN*NYTRRKTFHVLPQCS VTGNSLRGERH
22355	52723	A	22483	505	854	
22356	52724	A	22484	584	1009	FTQKDLFIPFEVMCDMDYRGG GWTVIQKRIDGIIDFQRLWCDY LDGFGDLLGDAFLFI.*KEDNQ NAMPFSTSDVDNDGCRPACLV NGQSVKSCSHLHNKTGWWFN KCGLANLNGIHHFSGKLLATGI QWGTGNQKQLTWQE
22357	52725	A	22485	1	3123	MSHRARPCPAPFLFWMLGVKT EPAGQDRRKARSRCIFRVHA SGLWGLRFPSVEWGKPSRDKA QLSESPQSVYLFAETALSAIVP GDGVAGGGGTGDGGPGAPYPG AVADMEEELTIWEQHTATLSKD PRRGFGIAISGRDRPGGSMVV SDVVPGGPAEGRQLTGDHIVM VNGVSMENATSAFAIQILKTCT KMANITVKRPRRIHLPATKASP SSPGRQSDDEDDGPQRVEEVD QGRGYDGDSSSGSGRSWD
22358	52726	A	22486	191	267	

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22359	52727	A	22487	2	609	PPRRSDEDPAKMAEVEHEEGSG PFRKFTLPAAVDL\DQ\RLDISY DQLEQPMQAVPVARPAAGGLN PGACGRKQ\HSPA*KRL LQGPS KGGAAPCHKPEAGEDATLRD\ MIILPEMWGS\WGVVYHGKTF \NQVEDQGVCGRPCRLGWAGV A*CRRDQLTPSFLGALPQPEMI GHVLEGFSTYKPVKHGRPGIG ATHSSRFIPLK
22360	52728	A	22488	3	461	STISLYCGLKTCPKLTCAFPVS PDSCCRVCGRDGELSWEHSDG DFFRQPATREASHCHRSHYDP PPSRQAGGLSRFPGARSHRGAL MDSQQA\SGTIVRFVNLNNKHH GQVCVSNGR\TYSHGESWHPNL RAFGIVECVLCTPTID\WPQGD *GKCRHGCPTLHYVD*LPLEKQ VILATALTMILHQADRLEVCPL FLGPEVTGELLWIPSKHQEPLC DLSSITNTSMDKCVFPMEGPIL MASPGTQTSGLLALW\SVCYVL PPPSIVPQGD
22361	52729	A	22489	656	1495	TGDGELSWEHSDGDIFRQPANR EARHSYHRSHYDPPPSRQAGGL SRFPGARSHRGALMDSQQA\SG TIVQIVNNKHHKGQVCVSNKG TYSHGESWHPNLRAFGIVECVL CTCNVTKQECKKIHC\PNRYPC YPQKIDGKC*QNSTCFIPEELP GQSFNDKGVYFCGEETMPVYES VFMEDGETTRKIALETERPPQVI CSTFCLA\QGLQHFHIEKISK MFEELPHGHFAFVCLLGQWKIF TEGEAQISQMCSSRVCRTELED LVKVL\YLERSEKGHC
22362	52730	A	22490	1	477	
22363	52731	A	22491	1	294	
22364	52732	A	22492	56	4042	VFFTSMEHLQKLIPASPACLA* IPQACQP*PPTPAWQCRNLRL AASRHQEP\RGVGGPLGHGAE RILAVPVRTDAQRLVSHVVSA ATSRAGVRRRAAPV\RTSPFPG GNEEEPGSHLFYNVTVFGRDLH LRLRPNARLVAPGATMEWQGE KGTRTVEPLLSCLYVGDVAG LAEASSVALSNC\DLGALIRME EEEFIEPLEKGLAAQEAQGR VHVYRRPPTSPPLGGPQALDT GASLDSL\SLRAL

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22365	52733	A	22493	173	1148	QALGLPSLLAVLALSTTDRASF SAVISRSPQRTVSSTRKEQRPLV FAFSALRLGTNACKMDGFCSTF LGAPGIRLKLTPAGTHKSERD RTATPTRHHEKRLFCSSLSIGRQ AEEAWRADHPLPESRLFGLVPL GGAAWCRLAGSFCVCSLRLPRP IELVRAASGALLGAVRRRNHGP PHCFSTATLLCKAYRGGHLTIR LALGGAPNRPFFYRIVAAQNK PRDGPFP*SKLGPPYPD/LLPPNS HGEKTPCPLN/LDRIRHWIG/CG APLLSPMEKLLGLAGFFP/LHP/ MMITNAERLRRKRAREVLLAS QKTDAEATDEATET
22366	52734	A	22494	2	4985	AGATTALELPGQPSVTGVPPELP GLPSATRALELSGQPVATGALE LPGPLMAAGALEFSGQSGAAG ALELLGQPLATGVLELPGQPGA PELPGQPVATVALEISVQSVVT TSELSTMTVSQSLEVPSTTALES YN/DERSMMSSYERSMMSYER SMMSPMAERSMMSAYERSMM SAYERSMMSMPAERSMMSAYE RSMMSAYERSMMSPMADRSM MSGADRSMSSYSAADRSM MSSYSAADRSMSSYTADRSM
22367	52735	A	22495	18	174	ALIKKHFI*IAAAKPTPPKSQV TLTKFFPVSSGSQHRKKEADSV YGEWVL
22368	52736	A	22496	3	595	IKKHFI*IAAAKPTPPKSQVTLT KEFPVS/GPQHRKKEADSVYG EWVPVEKNGEENKDDDNVFS NLPSEVSRNRNIMYFSFIPESAH FIVMLCLIWDSVSLFLRAGVKR QGRV*DGQMKQPAASHLTVT RM/CNSLCG/TKATKWKRLRFA ENSVITSLPNIGPSLHLWEGSP WYSIPFSFPSLLLLKVGVEFEK

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22369	52737	A	22497	3	5618	SSELPGPSVTPVPQLSQELPGLP APSMGLEPPQEVPEPPVMAQEL PGLPLVTA AVELPEQPAVTVA MELTEQPVTTTELEQPVGMTTV EHPGHPVEVTTATGLLGQPEATM VLELPGQPVA TTALELPGQPSV TGVPELPGLPSATRALELSSQP VATGALELPGPLMAAGALEFS GQSGAAGALELLGQPLATGVL ELPGQPGAPELPGQPVA TVALE ISVQSVVTTSELSTMTVSQSLEV PSTTALESYNTVAQ
22370	52738	A	22498	1	4685	MAPESHILASNTMETHILASNT MDSQMLASNTMDSQMLASNT MDSQMLASSTMDSQMLATSSM DSQMLASNTMDSQMLASNTM DSQMLASSTMDSQMLATSSMD SQMLATSSMDSQMLATSTMDS QMLATSSMDSQMLATSSMDSQ MLATSSMDSQMLATSSMDSQM LATSTMDSQMLATSTMDSQML ATSSMDSQMLASGMTMDSQMLA SGTMDAQMLASGMTMAQMLA SSTQDSAMLGSKSPDPYRLAQD PYRL
22371	52739	A	22499	291	7655	KRAPEKVDAYLYKQILLMKLP TKKSKKHKHKHKKKKKKKKE KEKKYKRQPEESESKTSHDD GNIDLESDFLKFSEPSVALE LPTRAFGPSETNESPAVVLEPPV VSMEVSEPHILETLKPATKTAE LSVVSTSVISEQSEQSVAVMPEP SMTKILDSFAAAPVPTTLVLK SSEPVVTMSVEYQMKSVLKS ESTSPEPSKIMLVEPPVAKVLEP SETLVVSETPTVEVPEPSTSTT MDFPESAIEALR

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22372	52740	A	22500	90	2166	SQHFGRLRRVDYLRTSKMQTSS SRSVHLSEWQKNYFAITSIGCT GPKADAYRAQILRIQYAWANS EISQVCATKLFKKYAEKYSALID SDNVESGLNNYAENILTLGASQ QTDSDKWQSGLSINNVFKMSS VQKMMQAGKFKFDSLLEPALA SVVIHKEATVFDLPKFSVCGSS QESDSLPSAHDRDRTDQFPES NRLKLLQNAQPPMVTNTARTC PTFSAVPGESATAKFHVTPLFG NVKKENHSSAKENIGLVNLSN QSCFPAACENPQRKSFYGGSTI DALSNPILNKACSKTEDNGPKE DSSLPTFKTAKEQLWVDQKKK YHQFQRASGSSYGGVKKSLGA SRSRGILGKFVPIPKQDGGEQN GGMQCKPYGAGPTEPAHPVDE RLKNLEPKMIELIMNEIMDHGP PVNWEDIAGVEFAKATIKEIVV WPMLRPDIPTGLRGPPKGILLFG PPGTGKTLIGKCIASQSGATFFSI SASSLTSKWVGEKEMVRALF AVARCQQAVIDEIDSLSQR GDGEHESSRIKTEFLVQLDGA TTSSEDRILVVGATNRPQEIDEA ARRRLVKRLYIPLPEASARKQI VINLMSKEQCCLSEEEIEQIVQQ SDAFSGADMTQLCREASLGPIS AV/SQTADIAITIPDQVRPIAYID FENAFITVRPIVSPKDL*LYENW
22373	52741	A	22501	3	523	FFFFPAFKMSKRGRGWVSPG CRKFPDFPLGLPVGTL*SNWCL TNTGAQKTLYIISREGGIKGTG LTRLPRLPVGIDMVMASHSRK ANPELQKKGYIPA\VVIRQRKVI TVGKRWRCCFFIFED\NAGVIGD\ NKG\EMKGFAITG\PRAKECAD LWPRDCIQMLGSI\WFSQYIL

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22374	52742	A	22502	3	946	GPSASVSFWLWSQQHSPRIHP RPGERRRLHGIPHTAEKQPA PLRPERRGRRRRPAGRRGCA* /GGARPCSSRSS*PASTPAPRAA PPCRSPCSARPTGPRTGAGRPR AP/HDGPPCATPDPRDQAS/PLPP RGPRPRVAPGSP/PEGHPRELPS EGSPGPRAPGQQRHVPRPVLIR PRGLRGGGCGPAHPAPRLQRR RAPGAAAAPGPRWPGRPGRR AQALVPAARSRCFWKLWEAVF CLPVAAAPTRRFGARQRPQLW LHGHKGQGVGEVSSHAGEEH LVPAAAPKRAREPHRGSGSPGG IASSWQDGS
22375	52743	A	22503	34	823	
22376	52744	A	22504	424	2339	LLRGTLSQYAWTSVIPDIATELR DAPEKTLACMGLAIHQVTICLM HTFV*ITFLMFAHTCTPCLTMVN VPHIHAR*GI*CIKVLLRMGH*R PFKNENAHRTGVVVRVSNIKPLC TKMAFLCAAAGEIQSFPLPDGK YSLPTKVIRSLTASLILVKKAN QNTENISRQSIK*AIRLLHKRQA LDVTLLRKSIILLHDLDVDSVPG DTVTITGIVKVSNAEEGRVQLF SLFVSQ**FINVHLF*DAPPHILV VGDPGLGKSQMLQVDNQSFVS CSFACKMR**FTSEFSLKSDSS SGDFALEAGALVLDGQGERPK GIISDSGTF*KAFSFSVNFLSISL AKAGVVCSLPARTSIIAAANPV GGHYNKAKTVSENLK*VSSNIY TFNVLNHFNSIRKRNSSHLSEH VIAIRAGKQRTISSATVARMNS QDSNTSVLEVSEKPLSERLKV *MFLLLIQFGSV*MSKFSVWLIIV DVYPRLSTEAARVLQDFYIELR KQSQRNLNSSIPTRQLESIRLITE VCFFLWSCFFWLKGEGCALTSL LKYR*DKNFKLF*MKYQLSSHL KLGNRPNRSTAKRFISALNNVA ERTYNNIFQFHQLRQIAKELNIQ VADFENFIGSLND/QGYLLKKG PKVYQLQTM
22377	52745	A	22505	73	214	
22378	52746	A	22506	1	503	

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22379	52747	A	22507	3	1000	ESKLEGKAAQDIKDEEPDGLGR PKPECEGYDPNALYCICRQPHN NRFMICCDRCEEFHGDVCGIS EARGRLRLRNGEDYICPNCTIL QVQDETHSETADQQA*WRPG DADGTDCTSIGTIEQSSSEDQGI KGRIEKAANPSGKKLKFQPG PGPVPTQLPVLWQVLEIAVSRSI SAFTLLHCISCKVIEAPGASKCI GPGICCHVAQPDVSYCSNDCIL KHAAATMKFLSSGKEQKPKPK EKMMPKPEKPSLPKCGAQAGI KISSVHKRPAPEKKETTVKKAV VVPARSEALGKEAACESSTPIS WASIDHNYNAIVKPEKTAAPSP VTVV
22380	52748	A	22508	1	2330	MAAAEGERAGGRASGRGRSE PPRPGARASDAGPGLREVEGT GEHSVVAAGTVPRVGVGAAAR GEERRAGLGECGPGLGCGVAG LISGKSVQAFSVGAGRWP LLRV FGGNVTFCVSVWSLCA YTLPL GMDDKGDPNSNEEAAPKAIKPTSK EFRKTWGFRRRTIAKREGAGD AEADPLEPPPPQQQLGLSLRRS GRQPKRTERVEQFLTIAARRGR RSMPSVLEDSGEPTSCPATDAE TASEGSVESASETRSGPQSASTA VKERPASSEKVKGGDDHDDTS DSDSDGLTLKELQNLRLRRREQ EPTERPLKGIQSLRLKRRREEGP AETVGSEASDTEGVLP SKQEP ENDQGVVVSQAGKDDRESKLEG KAAQDIKDEEPGD LGRPKPEC EGYDPNALYCICRQPHNNRFMI CCDRCEEFHGDVCGISEARG RLRLRNGEDYICPNCTILQVQD ETHSETADQQA*MGDLGDAID GTDFTSIGNIRSRSLRRPKGLK GRIEKAANPSGKKELKFQPVLE EIAVSRISAFSTLLHCISCKVIEA PGASKCIGPGCCHVAQPDVSYC SNDCILKHAAATMKFLSSGKEQ KPKPKEMKMPKPSLPKCG AQPQVWLLLLSSWQLGTSSGL QVTLQPPFTEHKWLKFSVLHG ETAGPPRAHRIRKLNKYWGAC HHCMLRPLRPLCPGWPRSSPSL



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22381	52749	A	22509	149	2001	IQPPDPRNMTLAAAYKEKMKELP LVSLFCSCFLADPLNKSSYKYE\
						AGVGDSVGGRMKASGKTVLT
						GRERRAQADTVDLNWCVID
						MEVIELNKCTSGQSFVILKPPS
						FDGVPEFNASLPRRRDPSLEEIQ
						KKLEAAEERRRRGPDV\YEIH
						SPASLPFHSSDASVLGDIPPTTY
						SNISNSNQELLMGGSPAPEQP
						HYEANILERSETTSYDNGSDAA
						QSFKVDGRCVFYINIPISNEGK
						VLWKAPEIATAKEPTWSPLGST
						GPRPCQILVVKSPVHVGKGPVL
						SGCGLDLLEQPTFALCFVAGA
						VTITFLSCSGEAREESAPKAMS
						ERQARRGGAEEKQGAEGRLQA
						VTTPELPYRMGLGA AFLKERS
						GVLPGSFICEDFTAALKQDEEIG
						TMKGKIREAYFKSFVPTPAFS
						GGVMLPTGTGLEMCGNNFGGH
						KEQAGTVLPFAIALRVTPSAS
						LVLRLPLNDQAMLQGSGLQL
						ADGLFWDLASIMDWATASIQPS
						VSSSMKICQAFGRPLAILLAQC
						AYVYGTWMKLEAILTTLTQE
						QKTKHHLFSLPCCMPADISYRQ
						RCLGEPHCTVWNRHLES LVM
						MSNSTTSPCELLIFEVPPVAPE
22382	52750	A	22510	373	990	IQPPDPRNMTLAAAYKEKMKELP
						LVSLFCSCFLADPLNKSSYKYE
						ADTVDLNWCVIFRHWKVIE\LN
						KCT/SGANSFEVILKPPSFDGVP
						EFNASLPRRARPIPWEIIPVRKL
						GRRLRERREVTREADP*KQLAE
						KRIEHEERGDSKRAFRETTFIK
						MAK/EKNLAQK MESNRENREA
						HLAAMLRLQEK\DKHAE EVR
						KNKELKEEASR
22383	52751	A	22511	524	1107	LCSPKVLGLNASCQKNFLKQK
						KSIKTLSTSQ/YVSGYSLARSE
						NAHPEFRMAMKDGELVIWDSV
						HPCYTVFHEQTETFSWLSEYH
						DDFRQFLHIYSQDVACYGENLA
						YFPKGFENMFFVSANPWVSFT
						SFDLNVANMDNFFAPVFTMGK
						YYTQGDKVLMLAIQVHHAVC
						DGFHVGRMLNELQQYCDDEWQ
22384	52752	A	22512	1	1413	
22385	52753	B	22513	1	2787	
22386	52754	A	22514	1	1638	

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22387	52755	A	22515	71	2421	YTVCYFLQAAEEDETQNQHDD SSSDSGTPSGPDFNYILNMSLW SLTKEKVEELIKQRDAKGREIV NDLKRK\SPSDLWKEDLAGIC WRDWDKV\ENSPRNEEDVLAG MSGKSNLKGKVGKPKVKKLQ LEETMPSPYGRRIIPEITAMKAD ASKKLLKKK/KGVLDLTA\VK\I VEFDEEFSGAP\VEGAGEEGIDS HQFPINK\GPKP\RRKEKKEPGSR VRKTP\SSGKPSAKKVKKRNP WSDDESSESLEETEPPVIPR DSLRLRAADIHRLGGEGFDAGL TVFAPLFA\SPFPGRAPYLKAA CQTPRSIGIGATAISGEALKGAV SSGVDPRWASHLRVKLLEKSFS LQEIQSTKVLSQQA\TSLSLG EPKLSKQLTGTCIYRKTNLALC RGPA\AAKSLFQGA\VRNDRNKK KKETSKOECTESYEMTAELDDL TEKIRKAHQETFP\SLCQLGKYT TSLQKGMQRQILDLSSVRPIV DVRPPELQDSKLVLVQAACKA PLADHCSKPVLLEKGPEDQKD QHDVGDCWNPECQTLFDQNN AAKKEESETANKNDSSKKLSVE RVYHIKTQLEHILLRPDTYIGSV EPLSKVAEEGPA\VGWGKGF GTESRKDPKPTGTTEE\VERGVW LSGREGRLLSPSVTTMVLAEN SAIRFVGKPSDTPVKPKRAP KQKKVVEAVNSDSDSEFGIPKK
22388	52756	A	22516	1424	4860	GRDRYGVFPLRGKILNVREASH KQIMENAEINNIKIVGLQYKKS YDDAESLKTLYGKIMIMTDQ DQDGS\HIKGLLNF\IH\NWPSLL KHGFLEEFITPIVKASKNKQELS FYSIPEFDEWKHIENQKAWKI KYYKGLG\YSTAKEAKEYFA\ID MERHRILFRYAGPEDDAAITLA FSK\KKIDDRKEWLTNFMEDRR QRRLHGLPEQFLYGTATKHLTY NDFINKELILFNS\SDNERSIPSLV DGFKPGQRKV
22389	52757	A	22517	87	292	
22390	52758	A	22518	1	903	
22391	52759	A	22519	3	311	

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22392	52760	A	22520	1	1087	MPSAAWKRPVEGPATLRRPLGI AAASQCPSSPQPGCLIGAVNLK SSNRTPVQEFESVELSCIITDS QTSDPRIEWKKIQDEQTTVVFF DNKIQGDLAAGRAEILGKTSKLI WNVTRRDSALYRCEVVARNDR KEIDEIAIEVTVQVKPVPVCR VPKAVPVGKMATLHCQGE*GP PPAIHYSWYRNDVPLPTDSRAN PRFRNSSFHLNSETGTLVFTAV HKDDSGQYYCIASNDAGSARC EEQEMEVCHTDKRGGFPWSW AAPHLWFLQDTALLPAALTGW CSVSVAFPGAQCKLSVDLSFWG LEDGGPLLTAPLGSTPVGTLCR GSDPTFPFCTALADDLYESPTPA ANFCLDIQAFSYIL
22393	52761	A	22521	628	1117	FFISVINGQVSSVQRLSGVGPAC LSCGSANPGPPGTSPGAGAQR R*IPRADGSGSPQWPRGARVGG GRLGTGGGRGPGRVQVPRRLS PGFGR*GGTGPGPVGTSGKRGP SRRRAPANDKAAACWPRFPGQP AS*TGFRGERGVKGFSSWGSG WRAWEDGGTVH
22394	52762	A	22522	2	238	
22395	52763	A	22523	131	2891	
22396	52764	A	22524	131	3103	LVSFLFQDALPEGDASPLGPY LLPSGAPERGSPGKEHPEERVV TAPSSSSQSAEVLGELVLDGTA PSAHHDIPALSPLLPEEARPKHA LPPKKKLPSLKQVNSARKQLRP KATSAATVQRAGSQPASQGLD LLSSSTEKPGPGDPDPPIVASEE ASEVPLWDRKESAVPTTPAPL QISPFTSQPYVAHTLPQRPEPGE PGPDMAQEAPQEDTSPMALMD KGENELTGSASEESQETTSTIIT TTVITTEQAP

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22397	52765	A	22525	474	2527	SASPLGPYLLPSGAPERGSPGKE HPEERVVTAAPPSSSQSAEVLGE LVLDGTAPSAHHDIPALSPLLPE EARPKHALPPKKKLPSLKQVNS ARKQLRPKATSAATVQRAGSQ PASQGLDLLSSSTEKPGPPGDDP PIVASEEASEVPLWDRKESAV PTTPAPLQISPFTSQPYVAHTLP QRPEPGEPPDPAQEAQEDTS PMALMDKGENELTGSASEESQ ETTTSTHTTTVTITTEQAPGMQPP TPMGEPPIVKHTWILDKCNVA TLQST*ALGPNEGYIDSSDYPLL PLNNFLECTYNTVYTYGYGVE LQVTPGEYFDGELLIRGVGDP TLTVLANQTLLVEGQVIRSPTN TISVYFRTFQDDGLGTFQLHYQ GRVPRPLFPRRPSGDVTVM DL HSGGVAHFHCHLGELQGAK MLTCINASKPHWSSQEPICSGM LQPQPHNATIGRVLSPSPYENT NGSQFCIWTIEAPEGQKLHLHF ERLLLHDKDR*SSEGPTNKSA LLYDSLQTESVPFEGLLSEGNTI RIEFTSDQARAASTFNIRFEGEG PWELYEPIYQGNFTTSDPTYNI GTIVEFTCDPGHSLEQGPALIECI NVRDPYWNDTEPLCRGERIHN ASAVAGVVLSPNWPEPYVEGE DCIWKIHHVGEERIFLDIQ/FVS V*NGSVFSQEKVRPTPEWW
22398	52766	A	22526	131	3125	LVSFLFDQDALPEGDASPLGPY LLPSGAPERGSPGKEHPEERVV TAPPSSSQSAEVLGELVLGDGT PSAHHDIPALSPLLPEEARPKHA LPPKKKLPSLKQVNSARKQLRP KATSAATVQRAGSQPASQGLD LLSSSTEKPGPPGDDPIVASEE ASEVPLWDRKESAVPTTPAPL QISPFTSQPYVAHTLPQRPEPGE PGPDMAQEAQEDTSPMALMD KGENELTGSASEESQETTSTHTT TTVTITTEQAP
22399	52767	C	22527	161	352	
22400	52768	A	22528	2	368	LGSTHASVRINILSVDLVLYFIFY RRDDNKDIDSEKAAAMEAEIKA ARERAIVPLEARMKQFKDMLL ERGVKQSLGEIFLCISINMS C*KVKS KVSASFWEKELHKIV FDPRYLLNLI

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22401	52769	A	22529	2	614	KDHRWESGSLEREKEKLFNE HIEALTKKKREHFRQLLDETSAI TLTSTWKEVKKIIEKEDPRCIKFS SSDRKKQREFEEYIRDKYITAK ADFRLLKKEFKFITYS*FSERCE SESL*KMLGLAAPQTEVLCSSST EVRSKKLIQESQHLKDKVEKILQ NDKRYLVLDVCPPEERRKLIVAY VDDLDRRGPPPPPTASEPTRRST
22402	52770	B	22530	201	296	
22403	52771	B	22531	1	1290	
22404	52772	A	22532	3	3369	SSSVMAERGGVGGESERFNPGE \LRMAQQQALRFRGPAPPNNNA AMRGGPPLMRPPPPFMMRGPP PPPRPPFGRPPFDNMPMPMPPG GIPPPMGPPHLQRPPFMPPPMSS MPPPPGMMFPPGMPVPVTAAGTP ALPPTTEI\WVENKTPDGKVYYY NARTRESAWTKPDGVKVIQQS ELTPMLAAQAQVQAQAQAQA QAQAQAQAQAQAQAQAQAQA QAQAQAQAQAQAQAQAQAQA QAQAQAQAQAQAQAQAQAQA
22405	52773	A	22533	43	347	
22406	52774	A	22534	1	1776	
22407	52775	A	22535	3	433	PLAPNHLGGGAVVLGAESHAS KDVAIDMMDSRTSQQLQLIDE QDSYIQSRADTMQNIESTIVELG SIFQQLAHMVKEQEETIQR*DR VNSAHPWDPVHLLPSTQQVFIE HLFM
22408	52776	A	22536	304	1403	SRGNATGLRTRIRVSTWVSQRH RSCPLQLLA\AAATSSPLPPVPT LVPPPPDTMSCRDRTOEFLSAC KFAARPVKNGI\QTN*GQLLRW LVQRQSEIHPSLAKRHLGKDL NTFAKLEKLTILAKR\KPLFDDK AGEIEELTYIIKQDINSLIKQIAQ LQ\DFVRAKG\SQSGRHLQTHS NTIV\VSLQSKLA\ASMSNDFKSV L\EVDRDGT\KQ\QREPEERQFS RAPV\SALPLSPTHRAGGA\VV GAESHASKDVAIDMM\DSRTS QQLQLIDEQDSYIQSRADTMQNI ESTIVELGSIQQLAHMVKEQ/ ERETIQRIDENVLGAQLDVEIAA HSEILKYFQSVTSNRWLMMDKIF LILIVFFIIFVFLA
22409	52777	B	22537	147	506	

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22410	52778	A	22538	2	1397	AAPGNGLSPSSWRSELACEFQH ECTAEVRFGAVVCRGARSHSFY LEREILQ/PPGMSL/PENPVTPML RHLMYKIKSTGPITVAEYMKEV LTNPAKGYVYVRDMLGEKGDF ITSPEISQIFGELLGIWFISEWMA TGKSTAFQLVELGPGRGTLVGD ILRVFTQLGSVLKNCDSVHLVE VSQKLSEIQALTLTKEKVPLER NAGSPVYMKGVTKSGIPISW*S RICTDVPKGYSFYLAHEFLDV LPVHKFQKTPQGWREVFVDIDP QVSDKLRFLVAPSATPAEAFIQ HDETRDHVEVCPDAGVHIEELS QRIALTGGAALVADYGHGDTK TDFRFGCDHKLHDVLIAPGT ADLTADVDFSYLRRMAQGGKVA SLGPIKQHTFLKNMGIDVR/L*R FF*INQMRPSVRQQLLQGYDML MNPKKMGERFNFFALLPHQRL QGGRYQRNARQSKPFASVVAG FSELAWQ
22411	52779	A	22539	2	377	
22412	52780	A	22540	2	1427	
22413	52781	A	22541	2	568	CSSPSN/TILGVQKLNSQWRLA QDFRLINEAVIPLYPVVPNPYTL LSQIPEEAESFTVLDLKDAFFCIP LHSDSQFLFAFEDPTDHNSQUT WMVLPQGFRDSPHLFGQAQAQ DLVHFSSPGTLVVQYMDDLLL ATSSEASCQATLDLLNFLANQ GCKRVGIALGVLTQTHGTTTPQ VAYLSKETDVAAK

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22414	52782	A	22542	1	1230	GPRGTGPGKARSEKGCSSLHG PQTNKPLVVQKGQKMEQANHP VGLVISVYKDKILKKIVQRETS HPLIHVRYAEAITGRRTAPEDK GSLGRDMLAKAGAIHNMNMG KLPIWCHLLEEGIYLEVWALEG QFGRAKNACPVQIRLKDPTTFP YQRQYPLRPEAHKGLQDIVKH VKAQGLVKKCSPCNTPLGVQ KPNGQWSLVQDLRLISEAVIPL YPVVPNPYTLLSQIPEEAEWFP VLDLKDFAFFCPLHYDSHDSQF LFAFEDPTDHTSQLIWTVLPPQ FRDSPHLFGQALAQDLGHFSSP GTLVLQYVDDLLATSEASCQ QATLDLLNFLANQGYKASRSK AQLCLQQVKYLGILARTRTL GKERIQPILAYPHPKTLKQLWG FLQIT/GFCQLWIPR*SKI
22415	52783	A	22543	1	211	
22416	52784	A	22544	1	472	
22417	52785	A	22545	1	393	
22418	52786	A	22546	59	411	SWPSDKQTLVVQRGQKMEQA NHDPDTHMSQLMWT/VLPQG FRDSPHLFGQALAQDLGHFSSP GTLVLQYVDDLLATSEASCQ QATLALLNFLANQGYK/LSRSK AQLCLQQVKYLCL
22419	52787	A	22547	43	236	TSSLLRKEDSAPSQGSVVFTL TSQG*VPLWRTLQQLGPFFTPSS RK*LELSSANSQQHLGCPV
22420	52788	A	22548	1	1446	
22421	52789	A	22549	1	1521	
22422	52790	A	22550	2	689	
22423	52791	A	22551	1	64	
22424	52792	A	22552	636	1586	SNDRTEDDCGKHPFMSSPPATEP WVCLIEGQEIDFLDGTGTFVS LIPCLGLRSSRVTIQGLGQPV RYFSHLLSCNWETLLFSAFLV MPESPPTLLGRDILAKAGAIISM KTGNKLPICCPLEGINPEVWA LEGQFGRAKNAHPLQIRLKDPI SFPYQRQYPLRPEAHKGLQDIV KHLKAQDSVRKCSPCNTPLG VQKLNSQWRLVQDLRLINEAVI PLYPVVRNPYTLLSQVPPEAEW FTVLDLKDFAFFCPLHSDSQFL AFEDPTDHTSQLMWMVLPQRF RDSPHLFGQAQALQDLGHFSSPG

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22425	52793	A	22553	292	1493	SNDRTEDDCGKHPPMSSPPTFP WVCLIEGQEIDFLD.TGTTFVS LIPCLGRLSSRSVTIQGILGQPV RYFSHLLSCNWETLLFSHAFV MPESPITPLLGRDILAKAGAIISM KTGNKLPICCPLEGINPEVWA LEGQFGRAKNAHPLQIRLKDPI SFPYQRYPLRPEAHKGLQDIV KHLKAQDSVRKCSSPCNTPILG VQKLNSQWRLVQDLRLINEAVI PLYPVVRNPYTLSSQVPEEAEW FTVLDLKDAFFCIPLHSDSQFLF AFEDPTDHTSOLMWMVLPQRF RDSPLHFGQAQDLGHFSSPG TLVLQYSEIAKTLTLIKEMER ANTHLVEWEPEAETAFETLKQ ALVQAPALSPTGQNFALYVIE RAGIALGLTQTHTTPQPVAY
22426	52794	A	22554	2	307	
22427	52795	A	22555	3	400	
22428	52796	A	22556	2	78	
22429	52797	A	22557	395	1336	SNNRTEGASSCHPLTEPQVCLT IEGQEIDFLD.TGTAFSVLISCPA WGTGQDSVSKKNEKKRKEKA KGNHQANAEAKIAARWNPSLE IPTEGPLVWNNPLQEIKPQYSLT ETEWGLSQGHFPLPLGWLMT EVKVLPEASQWKILKTLHQTF QMGIENQOMAKSLFTGPNLL WTIRHVVKACEVCQRNNPLVH HKAPLGEQRIGHYPGEDWQLD FTHMPKSKGFQYLLVCVDTFT NWIEAFPCKIEKAEVNVKVLH ETIPRFGPLQSLQSDNDPAFKA MITQGIFQGAKTISPCLLEATI LREGREGN
22430	52798	A	22558	244	638	GPLNPTFLGPPCGLGGKLVFLL LRQ*VQLFRSAGSRDRCGFLDR ERNKTNQNCQKQAKKSPKDHK NPRAVGYVPFN*QEGNLAQP GYMSPSPSLI*SRSRQTWGSFQ MILIGTKRNRPKRKSEIRERLQP
22431	52799	A	22559	210	600	RGKRTWRERRNGWSRGFCPLP LTGWSLISRESPLACLGELG VPGM*DLPHAWPTTLMCPFLV GSWSH*LQE*SHGPSQ*VLQLL RWCVWSLFLMFGCVWSFFLL VSSWSRWLRSEATDLCGECYSS



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22432	52800	A	22560	2746	5211	ETSCPLVRVHYEAETGRCTAP EDEGLGQKPPARRSNRTEGA WGKRQLMSSP/STEPVCLTIEG QEIDFLDGTGAASFVLISCPGRL SSTSVTIQGILGQPVTRYFSHLL SCNWETLLFSHAFLLMPEPRTG LLGRDILAKAGAIYMNMGKNL PICCPALLVEGINPEVWALEGQF GRAKNARPLQIRLKDPTTFPYQ RQYPLRPEAHKGLQDIVKHVK AQGLVKKCSSCNTPIILGVQKP NGQWSLVQDLRLISEAVIPLYP VVPNPYTLLSQIPEEAEWSWAL TFKDAFFCIPLHSDSQFLAFED PTDHTSQTGTVLPGGFRDSPH LFGQALAQDLGHFSNPGTLVLQ YVDDLLATSSSEASCEQATPDL LNFLTNGYKVSRLKACLQ EVKYLGLILARGTRALSKE*IQP ILAYPHPKTLQLRGLEITGFC *LWIPGYSKIARPLYTIKETQR ANTHLVEWEPEAETTFKTLKQ ALVQAPALSLPTGQNFSLYVRE RARIALGVLTQTHGTTQPQVAY LSKEIDVVAKGWPHCLRVVAA VAVLASEAIKIIQGGDLTV*TTY DVNGILGAKGSLWLSNCLLR YQALLLEGPVLIQICTCMALNPA TFLPEDGEPKHDCQIIIVQTYA ARDDLLEVPLTNPDLNLYTDGS SFVENGIRKVSVDVTILESKPLPP GTSQAELVALTWALELGKG
22433	52801	A	22561	903	4440	DHPGHHSSPCHERPNNVSTLFF LPGEQHPIILLPRNCPGDKILEE NFRYNNYKRTMMSFKERLENT VERCAHINGNRPRQSRGFGELL STAKQDLVLEEQSPSSNSLENS LVKDYIHYNGDFNAKSVNGCV PSPSDAKSISSEDDLNRNPDSPSS NELIHYRPTFNVGDLVWGQIK GLTSWPGKLVREDDVHNSCQQ SPEEGKVEPEKLKLTLEGLEAY SRVRKRNRNGIKVPPRSRSTIG SPRPSMPSSPS
22434	52802	A	22562	1	501	

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22435	52803	A	22563	1688	2038	SATHGLSDSCYWLVSRAIGRN NLSPASPASIIHALVFLAEPQLF QPRILGLIDEESGHEGGRPAAKT RKLSGPWSRPAAFMSTLLINQP QYAWLKELGLREENEGVYNGS WGRGEVITYTCPANNEPIARV RQAISVADYEETVKKAREAWKI WADIPAPKPKELVRQIGDAL REEDSKLLRKPWCPLDVGKIL LEGVGEVQEYVDICDYAVGLS RMIGGPILPSERSGHALIEQWNP VGLVGIITAFNFPVAVYGNWNN AIAMICGNVCLWKGAPTTSLS VAVTKIIAKVLE/DNK/LPGAICS LTCGGADIGTAMAKDERVNLL SFTGSTQVGKQVGLMVQERFGA RHYQNWRSLLELGGNNALIAFE DADLSLVVPSALFACCGELGQ RCTT/SRGRLFYYMESIHDEVFK QTLKRAYGTRSRVGNPWDPN VLYGAISHQGRQLSMFLGAVEE AKKERLAQWVYGGKVMDFPG NYYVEPTNVTSLDHDASIAHTE TFAPILYVFK/FKNEEEVFAWE* WK*NRGLSS*HSLPKDLGAESF RW/LGP/KGTQTCG/IVKQPFPT KWGLRLGGA/FGGEKAHLVVA RESGQ*C/WGKQYMRKVYVL FNYS/KDLPSGPQGIKQFQ
22436	52804	B	22564	1	1434	
22437	52805	B	22565	1	1185	

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22438	52806	A	22566	1	2450	GQACHASSSPLKSGRSGPPNFEI LYGPIFEDSLAPD*PKVIAGQIT LRDAVTGPISSPNEAGKIYQLKP NPAVLICRVRLHLPEKHVTW RGEAIPGSLDFALYFFHNYQA LLAKGSGPYFYLPKTSQWQEA AWWSEVFSYAEDRFNLPRGTIK ATLLIETLPAVFQMDIELHALR DHIVGLNCGRWYIFSYIKTLK NYPDRVLPRQAVTMDKPFLN AYSRLLIKTCCHKRGAFFAMGGM AAFIPSKDEEHNQVLNKVKA DKSLEANNHGDGTWIAHPGLA DTAMAVFNDILGSRKNQLEVM REQHAPITADQLLAPCDGERTE RKFNALMESEKQSQNLWKFA VYSGLRHGEAALAWEDVDLE KGIVNVRRLTILDMFGPPKTN AGIRTVTLQPALEALKEQYKL TGHHRKSEITFYHREYGRTEKQ KLHFVFMPRVCNGKQKPYYSV SSLGARWNAAVKRAGIRRRNP YHTRHTFACWLLTAGANPAFIA SQMGHETAQMVEIYGMWID DMSDEQIAMLNARVMVYDVA SGNALFISELGLPENVTWLSP GEFQKWNGTAWVKDTEAEKL FRIREAEETKNMLMQVASEHIA PLQDAADLEIATEEEISLLEAW KKYRSIPLCSKVVTMMFDDRP GCPVGFPMWGRGGFDRMPPG WGGRPMPPSRRDMSPHRGPPPP
22439	52807	A	22567	1	941	MIPNVQGPMPRGLEGPNYIFIKIS KNRRYTMAVTSVGLASSLCRV VRPCRAPAGVVSRSRGPDEWL FCPQARIQQQDID/NGTLPDFIS ETASIRDA/DWKIRGIPADLED RV/EITGPVERKMVINALNAIF MADFEDSLAPDW/NKVIDGQIN LRDAVNG/TISYTNEAGKIYQL KPN/PAVLICRVRLHLPEKH/V TWGEAIPGSLFDLA/LYFFHNY QALLAKGSGPYFYLPKTSQWQ EAAWWS/EVFSYAEDRFNLPRG T/KATLLD*TLAGGFQMVDP LGG*GTPWDHLRYIKVENIPKV GEGDAETTGTA V
22440	52808	A	22568	2	393	
22441	52809	A	22569	1066	1824	
22442	52810	A	22570	2	165	
22443	52811	A	22571	3	902	

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22444	52812	A	22572	1	2034	
22445	52813	A	22573	176	873	RLFGEMSKLN/HNLSEVMSKLE KQHSSKVFVVKRLSSSSRRSLVI SPPVVRTSTVSSPLTSTPSLSS KSKSESVSATEDLAPDAAQGED NSEIKELLEDEEIGKEGSEASS EEEEPLLTCTNGPSQAQSPHIESA RSQEEVPPSSPALSPGGALSPSG HPLSSAAEVVLRTRTAVPQAKG NNVVITSYMTNRGFFEDKKATF APSFMLMNIKGKNTSVVKNISILE QGQLTVN
22446	52814	A	22574	1	1890	
22447	52815	A	22575	2	1279	LSVFPRVRNFTTQAECH/KLFK VLKNFLIAGGGVHESKRAS*T LQFIYYSEWYGHEELKATVWN NDLLWEDYEELADQAVRTM EIYVAQFSEIKERIAKGRKLV YDSARHHLEAVQNA TKKDEAK TAKAEEEFNKAQT VFEDLNQEL LEELPILYNSRIGCYVTIFQNISN LRDVFYREMSKLNHNLYEVMS KLEKQHSNKVFVVKGLSSPSTL SLKSESESVSATEDLAPDAAQG EDNSEIKELLEEEIEKEGSEASS SEEDELPACNGPAQAQPSPTT ERAKSQEEVLPSTTIPSPGGALS PSGQPSSEATEVVLRTTASEGS EQPKKRASIQRTSAPPKPEKPV RTPEAKENENIHQNQPEELCTSP TLMTSQVASEPGEAKKMEDKE KDNKLISANSSEKIYFQRPSVLI

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22448	52816	A	22576	1	1791	MPGARTSSSGASENHRARGQG GGPOGVGRMAEGKAGGAAGL FAKQVQKKFSRAQEAL*KLQ KAVETKDERFEQASNSFYQQQ AEGHKLKLDLKNFLSAVKVMH ESSKRVSEITLQEIYSSEWDGHE ELKAIIVWNNDDLWEDYEKL ADQAVRTMEIYVAFSEIKERI AKRGRKLDVYDSARHHLEAVQ NAKKKDEAKTAKAEFEFNKAQ TVFEDLNQELLEELPILYNSRIG CYVTIFQNISNLRDVFYREMSK LNHNLYEVMSKLEKQHSNKVF VVKGLSSSSRRSLVISPPVRTAT VSSPLTSPSTLTKSESESVS ATEDLAPDAAQGEDNSEIKELL EEEEIEKEGSEASSSEDEPLPA CNGPAQAQSPPTTERAK\SQEE VLPSTTTPSGGALSPSGQLSSS ATEVVLRTRTASEGSE\RPKKT ASIQRTSAPRRPPPPRATASPRP CSGNIPSSPTASGGGSA\TSPRAS LGTGTASPRTSLEI*PNPE\PEK PVRTPEAKENENIHQNPEELC TSPTLMTSQVASEPGEAKKME DKEKDNKLISADSSEGQDQLQV SMVPENNNLTAPEQEEVSTSE
22449	52817	A	22577	2216	2568	RPSLGLGM/CTIWQ/TSLA/GKH RRTIETHDDYRISLEQGTGPLE PPLNALTAKSKIGCNGFFPFQIR PGKNETDGRMFSPAIGIVEDPV TGNANGPMGAWLVHHNVLP DGNVLRVKGH
22450	52818	A	22578	108	532	WGSKGNLLYSHQTHSVSHQFS LVACCLELEYSPPFFYACLLSS LMRLEKHQELNLWPAHQRSRMR HPQDTLVVFS/HHGRVLL*DKT SRGTIRQQHSRFTKICCSAATAA VTQANRVWSGPLANSNRPAAE GPVLAAFMGWL
22451	52819	A	22579	1	1125	

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22452	52820	A	22580	1	985	MCARGSLWGCYSLERKCEAA LPDRVVSSKSACGAVSQDLLQ AQGRRAQPPSWLYADPVHTGT IECGHGWCLNAAALLDFQSPQRL LTYLHCGLQRPMESSDPELAPM VHHQEGIYLNIRKAMYDKPTA NKLNWDKSNVSSLITGTRQEET TANGTTFAITHLQFFIQIPAVPR KTLNLRADYYFPEHNPSLTLVI NRRITKFSEPNWEAPPSRGLTP HTAGYSSETKIPEERSDDSSIRGS RKSAVLQPLLLDSQANRVWSG PLANSNRPAEAGPVC*LWVVT LHGPKATMQVCQQLPW
22453	52821	A	22581	294	934	YPPSPAELTVCLRLQQLRDVL YCIAYPSGPGVKPFRGNSA/G/V VFPADNLSEAQMQLIARELGH SETAFLHSD/DSVRI/RFTPTV EVPI/CGHATVAAHYVRKVL/ GLGNCTIWQTSLAGKHR/VTIE KHNDYRISLNALTAIS/KKIGC NGFFPQIRP/KNETDGRMFSP AIGIVE/DPVTGNANGPMGAWL VH/HNVLPHDGNVLRVQ*GPR
22454	52822	B	22582	1163	5585	
22455	52823	A	22583	2	429	AACAAAMSLVIPEKFQHILRVL NTNIDGRRKIAFAITASSSSSSSS SSSSSSSSSSSSSSSSSSSSSSSS SSSSSSSSSVNLLSNGLYL/VKG VGRRYAHVVLKADIDLTKRA GELTEDEVERVITIMQNPQYKI PDWFL
22456	52824	A	22584	84	424	GVHAASDKPCWITTSQTPDVQ HRW/WLLISSML*TAENRRSDK AFTPHPTNHAGSQLRKHPTCSI DGVIDIFHAVNTFVQHHEETL KAFHVTGHHILIAHGLGVGKE NTEHAANVVNDQRNSGFFCRF QQTFCQTCCLIQRFVNARLRD FISC
22457	52825	A	22585	88	381	IQVLANGLDNKLRREDLERLKKI RAHRGLRHFWG*VGGLSLPTS TQHSSYSLFFFPNLLFLLCMTCD SSLFTCSLRVRGQHTKTGRRG RTVGVSKKK
22458	52826	A	22586	355	699	FIDTTEAGSHFLYALVRFAATIT TITDDGARRLRTLFRQQAQDLV SVSKSGFFTADCTHTNALIDVV RTIFNNAVF*NPGFVIARLKIEIA IIKATFGQLTEDREQVLMFQAV RR

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22459	52827	A	22587	1389	1532	SVLPGRPDARQYRQTRQSW*R WSLRRLRGSYVPVAGRSLRRHRQ TERF
22460	52828	A	22588	1	427	LVHQQWIQTKKKSLIYPFCHSP SQRVVEVAALDQWLAMLYPR VEHQAVLAVVVVVVGLVLRP YHTRRDVRLRLQPAVFIVAV DIVRLRDAVIRPHCECTVRVIR SGSGSRLPAGSVAYGMRMSRS GARVRTLSILPVAL
22461	52829	A	22589	1	915	
22462	52830	A	22590	1166	1321	
22463	52831	A	22591	813	977	
22464	52832	A	22592	3485	4237	
22465	52833	A	22593	1	499	ARAAACAAAMSLVPEKFQHIL RVLNTNIDGRRKIAFAITAKG VGRRYAHVVLRKADIDLTKRA GELTEDEVERVITIMQNPTQYK IPDWFLNRQKDVKGK/FQPGS *ANGLSTTKLRENKLPKEDSG PIKGLRQLP/WGLRVRGQHTKT TGRRGRTVGVSKKK
22466	52834	A	22594	1	1197	
22467	52835	A	22595	1	1905	
22468	52836	A	22596	37	514	WTWWLRRCYENRRHCHLLQQ LPTSPHQHAVATPTTVAVPTAP AATPPVVVAVVAVPVVVVVVP VVPVVASVPFVEPGSDVIVCAE MDEQWGYVGAKSRQRWLFYA YDSLRTVVAVHVFGERTFDVI WMTDGWPLYESRPAFTGRDC VDDAFFAVAGV
22469	52837	A	22597	1	471	
22470	52838	A	22598	2	323	SRIQPGSDVIVCAEMDEQWGY VGAKSRQRWLFYAYDSLRTV VAHV/FGERTIRTLRLRFLCLR SSHDLVSSPVSHRRRRAGSRQR HRRARGGENVEYQWGALRHG
22471	52839	A	22599	2033	2310	ARYVGNAGCTGGALFGRSQTI REAVG/ERRLAESRDVAALDTP CDPEIKMAEWMQTLKETGSTS GHIVTRRISVRISHVTPGPASQD GPDVQQR
22472	52840	B	22600	1	4891	
22473	52841	B	22601	7	1233	
22474	52842	A	22602	193	492	
22475	52843	A	22603	1	486	

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22476	52844	A	22604	62	443	RSDRLLIHGFSFPAMGFRLRKT VVAHVFGERTMATLGRMLSL SPFDVVIWMTDGVPLYESRLK GKLHVISKRYTQRIERHNLNR QHLARLGRKSLSFSGGTACCG HCLTRDIPMLHHQGNQLF
22477	52845	A	22605	971	1444	SMGSGDMRSPSRAAALRQLPR PFRQLAVRMEMISFRSAKEQT KSLRKWRKAKSIF*SVAQTGFN VLVCTTHIETGIDSRQPTLLSLNA RITSVCAAAPVTRSRRTFASSGY AWLLTPHPKAMTTDAKNVLKQ LPRWKISGQVRAGTARSGDSRR W
22478	52846	A	22606	1	1047	
22479	52847	A	22607	318	598	LTGFRRLCDLRFGGGAVRSVLA RSREFILQH*FRIVTGSMSGRSL VPSAPLR/PSIVLVFRKAW*L VKTQRKMHVVSIVQKKASCWYP LLGCL
22480	52848	A	22608	1	2652	
22481	52849	A	22609	1	852	
22482	52850	A	22610	1	807	
22483	52851	A	22611	1	1740	
22484	52852	A	22612	1	3144	



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22485	52853	A	22613	173	1983	PVQNGSSPLGALPGAPLIFGPSV PAISRPGSCSPWPTLDTSGYSA PR/WLFTAYAGSEAVFAHVF ALGDAGLLMSLLSPFDVVIWM TDGWPLYESRLKGLHVISKRY TQRIERHNLNLRLQHLARLGRKS LSFSKSVEQHDKLESLPGQIDKS LDEASLSLRAGSLRTITHILLPLL RPAILSALIYSFVRAITTVSAIVF LVTPDTRVATAYILNRVEDGEY GVAIAYGSILIVVMLAIIFIDWL IGESLLSRFEKTVDDHSQSRLPA EGSILSQDISGVKLFSLTPARG YVPIRAPCPFLCASYRFFCVARQ QGLDAALIDAPLAVDALTPLE LLSHVGQAAPCSVPVDEDDQY VGIISKGMLLRALDREGGVRVP VDYILNGFHPLLLGMPAPLAIIV FALIAACRFPGSGNRIRRSRRIRH LHKMPDATALSASYQAYVRHQT NVTALVLRSSHRFRKDRHCWG FVFLQQPILRATGQFEIQTFRYL SVFSVQRHKTNGKTALMSGNV ADKAVNRATGPTACVWLFSLR NSSMVTTRFCGLCEWADQQGA RPARISENGKRGYSYLYDVHM GAQSGETRGRQGEYASKPPSRE
22486	52854	B	22614	1	2149	
22487	52855	A	22615	1	1815	
22488	52856	A	22616	2014	3411	
22489	52857	A	22617	1	922	MVICQPINGGWQWPPSTGTDP APYFRIFNPITQGEKFDHEGEFI RQWLPELRDVPQKVVHPEPWK WAQKAAAPPQTRLHSTPTTIPH RVPGHPTPNLKPIWEVDLPKFSH KATSHATDKPSDTTQNDQIVIA YMEPPEIVHETTTSTHPSLYIIL KRQTRELRPQSVTSRIQPGSDVI VCAEMDEQWGYVGAKSQRQW LFYAYDSLRLKTVVAHVFGERT MATLGRMLMSLLSPFDVVIWMT DGWPLYESRLKGLHVISKRYT QRIERHNLNLRLQHLARLGRKSL SFSKSVELHDKVIGHVYLNKHY

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22490	52858	A	22618	1458	2185	YGHEWRWMPGNRPH\YGRWP QHDFFPKKLRPQSVTSRIQPGS DIVCAEMDEQWGYVGAKSR QHWLFYAYDRLRKTVVAHVFL GERTMATLGRLLMSLLSPFDVVI WMTDGWPLYESRLKGKLVHVIS KRYTQRIERHNLNLRQHRLRLG RKSLSFSSVEKITSGPTTNA TP GTQKTATDKRGGKKLPQIPIGP ISRIASGAAINTISIGLRKFLVTA GVMLSTQRSIYDRHQVITSAGIT
22491	52859	A	22619	493	1518	
22492	52860	A	22620	963	1597	
22493	52861	A	22621	1	3052	MATDSVGLNCTPAPHARDVLL WRPSSLPVSTSCVFPGLGRIGDVS DESDDKTEAPTPHRLKAREEG QIPRSRELTSLILLVGVSIVWF GGVSLARRLSGMLSAGLHFDH SIINDPNLILGQIILLIREAMLAL LPLISGVVVLVALISPVMLGGLVF SGKSLQPKFSKLNPLPGIKRMFS AQTGAELLKAILKTILVGSVTG FFLWIIHWPQMMRLMAESPITA MGNAMDLVGLCALLVVLGVIP MVGDFVFFQIF
22494	52862	A	22622	1	1233	MANDLPHSNSGDGQKPSPLDF TAPLLADPTVGFLPNDAEELFIF LTEITEITPCRVTDQPLVVTLHE KKGDVALPVYPYDHQGFSGIFE DRSYICKTTIGDREVDSDAYYV YRLQAVPPVQLLTGWCVTAKA PPDISAISALTAVKHGNCSSLTP LLNPPGSDVIVCAEMDEQWGY VGAKSRQRWLFYAY\DSLRLR RVVAHVFG\*RTMATLGRLLMSL LSPFDVVIWMTDGWPLYESRL KGKLVHISKRYTQRNERHNLNL RQHRLARLGRKLSFSKSVELHD KPSQPHREGVKDVMRFNEPMY PLESRPLVYVCHLRNGAQASGR RCQLPMGCACHPVSQRNDRPN RRPERHATRKTTTRQORQNSRQ HKQTQKKAKPNRRATERGKG PQQKAERPKRHTHCFCLKQ

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22495	52863	A	22623	3	1386	HEASSPLAMASLTVKAYLLGK EDAAAREIRRFSCSPPEAEAE AAAGPGPCERLLSRVAALFPAL RPGGFQAHYRDEDDGLVAFSS DEELTMAMSYVKDDIFRI*IKE KKECRDRHRPPCAQEAPRNMV HPNVICDGCNGPPVVGTRYKCS VCPYYDLCSVCEGKGLHRGHT KLAF\SPFGHL\SEGF\SHSRWL\ RKVKHGHFGWPGW\EMGPPG\ NWEPTFLPRAGEARPGP\TAES ASGPSDEPSVNF\K\NVGESVA\ AAFSPLANFEVD\IDVEHGGKRSR LTPVSPSSSTEES\SSSQSSCC SDPSKPGGNVEGATQSLAEQM RKIALESEGRPEEQMESDNCSSG GDDDWTHLSSKEVDPSGTGELQ SLQMPSESGPSSLDPSQGGNPQ GWKEAALYPHLP\PEVEPAA*F ESLSQMVPVPWGF*\LKGWVH QGSCRPRNYDIGAAL\DTIPVIQ
22496	52864	A	22624	1032	1127	FYAKAEAGDRTVA*PHKPKMF LSIHHRVAKI
22497	52865	A	22625	121	561	VFPGLGSLVDICGPSRVFPFWV VPAVLVPVQVQRLPRFFRCPPV LVTSVIRISITLIQALGSSPFARR YWGNLG*FLFLGVLCFSSSTGS PH*PMNSVNDVS\SKHT/EVTPF GNPGNNGSYHLTDAYRRLARP SSPLTPGHPPLYG
22498	52866	A	22626	243	454	ATAGCPCSCATEGVVRNGKST AGHQRYLCSPCRKTWQLQFTY TASQP/GARIMGVGLNTVLRHL KNSGRSR
22499	52867	A	22627	3	640	
22500	52868	A	22628	236	410	
22501	52869	A	22629	116	359	

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22502	52870	A	22630	276	1905	LFLYSSHGQYGCPSCSATDGVV RNGKSTAGHQRYLCSHCRTW QLQFTYTASQPAGQ*RTAIATVI CCNNCQRRHTNSRCHTDNCRR ADSASSHATSGSSRGCAGSGR CGASSTRCLGPVCCFRGSKRS WRRQHEGHKDCRKLVFHNFSEI HRMDNTAVPPVQLLTGWCVTA KAPDISAISALTAVKHGNCSSL TPLLNPPGSDVIVCAEMDEQW GYVGAKSRQRWLFYAYDSLKK TVVAHVFGERTMATLGRMLSL LSPFDVVIWMTDGWPLYESRL KGKLVHISKRYTQRIERHNLNL RQHLARLGRKSLSFKSVELHD KQQGLDAALIDAPLAVDAQTP LSELLSHVGQAPCAVPVDEED QQYVGIISKGMLLRALDREGGV RVVPVIYPKFRFTTDVCMPLSLG TCIREIEAEFPDPIFRRSVVYICE HNTNGAMGIIIVNKPLENLKIEGI LEKLKITPEPRDESIRLDKPVML GGPLAEDRGFILHTPASNFASSI RISDNTVMTTSRDVLETGLTDK QPSDVLVALGYASWEKGQLEQ EILDNAWLTAADLNILFKTPA DRWREAAKLIGVDILTMAQD GTPDWNIERLLKEWQPDIIIVG LPLNMDGTEQPLTARARKFAN RIHGRFGEVVKLHDERLSTVEA RSGLFEQGGYRALNKGKVDSA SAVILLESYFEQGY

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22503	52871	A	22631	399	2337	PEVQGLQQAGAAARRPGVGLA APRVVCEGRRLRSGGLQSRCLPG ASV*ATDGVVRNGKSTAGHQ YLCCHCRKKTWQLQFTYASQP AGQ*REKEKEKEVEEEEEKEK KRRREGEKEKEKEKEKEK FKKKKKKKKKKKKKKKKKKK KKKKKKKKQLSLVTVMSSQQQL WRNEARTTGACLPSTVSAAP PIVSTTVTAFAAATLAKGDLRS RASSKQVPLLVVLVWVWPHPG WFKAGSVALGSSPGCVLELL CKLLTGWCVTAKAPPDISAISA LTAVKHGNCSSLTPLLNPFGSD VIVCAEMDEQWGYVGAKSRQ RWLFYAYDSLRTTVVAHVFE RTMATLGRMLSLSPFDVVIW MTDGWPLYESRLKGLHTQER KARSKQKQDADTAPPIQVGTQ TPQTVHAARDTRQASPRASKIS QHRQADGDKRQTRHAEAQAT RHTGRRKTIKETATQQAAYADE QTRRTARTHRRRTARHTAAHTH RTRVAARQTTEKDNEQSDTQPP TQKTPSATATAHTPRRTETTTNI VQARHTSARERNHTRQHQA RETTINAHTNTPHYHAEHTQSR SQQQTSTERTPTDSSTTINNN HTPRTVRDERMTQHKHPSRA STTTNRTTTTGAYQHTQRDTRD TRRDTHEDTTTQPHTTTPTAN EAYTAHTTKTDHHRHTADDT
22504	52872	A	22632	103	313	ATAGCPSCSATEGVVRNGKST AGHQRYLCSPCRKTWQLQFTY TASQP/GARIMGVGLNTVLRHL KNSGRSR
22505	52873	A	22633	620	832	

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22506	52874	A	22634	453	1047	AADDRGHLRPTDGLLRNGKST AGHQRYLCSHCRKTWQLQFTY TASQPAQG*RVGTGTSERREQIIQ RLRQQGSVQVNDLSALYGVST VTIRNDLAFLEKQGIIVRAYGG ALICDSTTPSVEPSVEDKSALNT AMKRSVAKAAVELIQPGHRVIL DSGTTTFEIALRLMRKHTDVIAM TNGMNVANALLEAEGVELLMT AGICALLTGCCVTAKAPPDISAI SALTAVKHGNCSSLTPLLNPFG SDVPVCAEMDEQWGYVGAKS RQRWLFYAYDSLRTKTVVAHV GERTMATLGRMLSLSPFDVVI WMTDGWPLYESRLKGLHVIS KRYTQRIERHNLRLRQHILARLG RKSLSFSKSVELHDKVIGHYLN GDFLQSTLREAPIPHREHP
22507	52875	A	22635	1089	1686	TSPGYWRANSTDPDGRYCRGT TSGGVCHALSSLRCPSCSATDG VVRNGKSTAGHQRYLCSHCRK TWQLQFTYTASQPAQG*RFLSK QEKTLINQLASEEQKQVTSRL SDALRNGRVVQLAIIYLTIQVA VYGLIFFLPTQVAALLGTVKGF TASVVTAIIPWVAALFETWLIPR YSDKTGERRNVAALTLAAGIG IGLSGLLSPVMAIVALCVAAGIF IAVQPVFWTMTPTQLLSGTALAA GIGFVNLFQAVGGFIAPILRVKA ETLFASDAAGLLTLAAVAVIDR RGTSNLRLRNTMIALLSNPFKE RLRKGEVQIGLWLSSTTAYMA EIAATSGYDWLLIDGEHAPNTI QDLYHQLQAVAPYASQPVIRPV EGSKPLIKQVLDIGAQTLLIPMV DTAEQARQVVSATRYPPYAVH PVQLLTGWCVTAKAPPDISAIS ALTAVKHGNCSSLTPLLNPFGS DVIVCAEMDEQWGYVGAKSR QRWLFYAYDSLRTKTVVAHVFG ERTMATLGRMLSLSPFDVVIW MTDGWPLYESRLKGLHVISK RYTQRIERHNLRLRQHTGTGW DGSRCRSQKSGGAA
22508	52876	A	22636	91	200	SGIIAFQYLLMTLKVLPVASVSI SCPSCSATDG VVRNGKSTAGH QRYLCSHCRKTWQLQFTYTAS QPAGQ*RGGA

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22509	52877	A	22637	2649	3270	GAPVASVSISCPSCSATDGVVR NGKSTAGHQRYLCSHCRTWQ LQFTYTASQPAQ*RTIGRAML KNKHMTITEFVAQRMDDAQK GEISPDINTAMTSRLLLDLTYGV LADIEAEDLARKRRLRLTRDD WRYLNRILILSLFRAGDNCAR VSYQTPTREIKKLDGLWAFSLD RENCIDQRWWESALQESRAIA VPGSFNDQFADADIRNYAGNV WYQREVFIKQWAGQRIVLR DAVTHYGKVVVNNQEV
22510	52878	A	22638	1	2470	MNADTDYSIAEAFNKGETAM TINGPWAWSNIDTSKVNNGVT VLPTFKGQSPKPFVGLSAGIN AASPNKELAKEFLENYLLTDEG LEAVNKDKPLGAVALKSYYEE LAKDPRIAATMENAQKGEIMP NIPQMSAFWYAVRTAVINAAS GRQTVDEALKDAQTRITNCCRI RRESLIRPGMRKNPMDVIKKKH WWQSDALKWSVGLGLLVG YLVVLMYAQGEYLFATITLILS SAGLYIFANRKAAYAWRYVYPG MAGMGLFVLPLVCTIAIGFNN YRRTKQVAGMPAKSSSLRSSQ DREMRPGAKAERTRYDSPGSY GVAGPGFLGSRGSPFGGPGKY NNTITKYALNIAPSAQNQSPHG PKLNRRQETQHALDWLDAGYT FTYSEDQALTPYFKLAYVYDD NNDNDVNGDSIDNGTEGSAVR VGLGTQFSFTKNFSAYTDANYL GGGDVDQDWSANDLTGITAKD AQMLSVVKPLQEFGLDKCLS RYGTRFEFNNEKQVIFSSDVNN EDTFVILEGVISLRREENVLGIT QAPYIMGLADGLMKNDIPYKLI SEGNGCTGYHLPKQITITLIEQN QLWRDAFYWLAWHNRIELRD VQLIGHNSYEQFAHIFMIAAM QMGSVWGDDFSSGQHSVARKS QLHKPILRVKCHEGFTISANPNS SPRYPTIIEQAEQPRIVDFSI VRF
22511	52879	A	22639	1	852	

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22512	52880	A	22640	1	747	MIIDPRYTDGTGAGREDEWIPIR PGTDAALVNGLAYVMITENLV DQAFLDK YCVGYDEKTL PASA PKNGHYKAYILATD/GVVRTAK STAGHQRYLCSHCRTWQLQF TYTASQPAGQ*RYTDTGAGRE DEWIPIRPGTDAALVNGLAYV MITENLV DQAFLDK YCVGYDE KTL PASAPKNGHYKAYILATDG WCVPPKAPDISAISALTAVKH GNCSSLTPLL NPPGSDVIVCAE MDEQWGYVGA KSRQRWLFYA YDSL RKT VVAHVFGERTMATL GR LMSLLSPFDVVIWMTD GWP LYESRLK GKLHVISKRYTQRJE RHNLNLRQH LARLGRKSLSF SK SVELHDKVIGHYLN I KHYYQ
22513	52881	A	22641	1722	2463	NPRLAGSEGCSPCSATDGVVR NGKSTAGHQRYLCSHCRTWQ LQFTYTASQPAGQ*RKLTGCL FVALKGERFDAHDFADQAKAG GAGALLVSRPLDIDLQ L I VKD TRLAFGELAAWVRQV PARVV ALTGSSGKTSVKEMTAAILSQC GNTLYTAGNLNNDIGVPMITLL RLTPEYDYAVIELGANHQGEIA WTVTHPPRFVTKWQLCPDG LLFAEARFVIWQM PAVMAV DVAAFAHLFNQQYQRF TGR PDSSKL PWKITCNGECVTFHW WLLGVAVRISRLLPVRVMTAL EGNYNGTEGIALPFNGIILAH NESEWVTRNNKNNEAFLDRV YIVKVPYCLRISEEEKIYEKLLN HIFECWQHFLNPESLQCYIWA ANADFREARQVIFKTFFTVGVE EELGIRQTRTNDFLVTGDNLLRI FRFDVGNEDKVRQQA VVRIH REVFLVTFHGVNQRF SRHREEF LF EFCVSVTANL TRCF FGI GFNL RLTFFVIGDDFPTLTQNFRI LIGV IDGEFRLAHKAVAA NHAIGLNA QNGCRNDFVAHAAGSRALAAD GRSLEHAPTVETVVAGPLCESG DVFTQEQEGGNVETRALPEVKA AVPPVQLLTGWCVTAKALPDIS AISALTAVKHGNCSSLTPLL NPP GSDVIVCAEMDEQWGYVGA KS RQRWLFYAYDRL RKT VVAHRL



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22514	52882	A	22642	90	1254	KGLCSHSEMVVPSYSATDGVV RNGKSTAGHQRYLCSHCRKTW QLQFTYTASQPAQG*RDIVLTK LMMVWHSQSGYEKAYAHQIR WWYRAILLTGWCVTAKALPD ISASALTAVKHGNCSLTPLLN PPGSDVIVCAEMDEQWGVYGA KSRQRWLFYAYDRLRKTVAHV VFGERTMATLGRMLSLSPFDV VIWMTDGWPLYESRLKGKLVH ISKRYTQRIERHNLNLSSTSLVL LNGATQFQDLGDLNKELEETY TDSKNHISCVGNDGFGNDIFSR YVEAVGREGDVLLGISTSGNSA NVIKAIAAAREKGKMTLTLTK DGGKMAGTADIEIRVPFHGYA DRIQEIHIKVIHILQIEKEMVN FTGLVQGGGTGPHKDGWGIT FYEVAFEDVAVNFTQEEWALL DPWOKKLYRDVMLETYRNLAS VGDDDNIPSLREQVAHQRYFKT WHVEREYFSK
22515	52883	A	22643	690	1233	RLQSLHYQGRGKPVPMRSYLS FLFTISNSAGVFRCPSCSATDGV VRNGKSTAGHQRYLCSHCRKT WQLQFTYTASQPAQG*RLLGP KNRPREQNWLLWCERGVMRL QALYLREQGFNNVKVDNFQTK VDSCTRPLAGQFYPCIPDDAL VQPLFGGNFVFORREAGHITNR EDIVRHQHGGWGRGANSRDDTP GTVELFNGFNQQAIAKTLRAF NATRQHDHVIFAISHFDQRIR QQLHAARAGNRQVTIAGDAGS GDFDTAANQQIDS GDGFSLFTT RGEANQCRCACAHIHSPFFLPFQT VRVFSAPVPVQLLTGWCVTAK APPDISAISALTAVKHGNCSLTP LLNPPGSDVIVCAEMDEQWGV YVGA KSRQRWLFYAYDSL RKT VVAHVFAVKPYWDTGGGFHC RWIYMQQEKELLQLSLQQGY NQKRAAELLGLTYHQFRALLK

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22516	52884	A	22644	1314	1483	RIQRYCGKTCGCPSCSATDGVVR NGKSTAGHQRYLCSHCRTWQ LQFTYITASQAGQ*RMFNADG SEVAQCGNGARCFARFVRLKG LTNKRDIRVSTANGRMVLTVT DDDLVRVNMGEPNFEPSAVPF RANKAEKTYIMRAAEQTLICGV VSMGNPHCVIQVDDVDTAAVE TLGPVLESHERFPERANIGFMQ VVKREHRLRVYERAGAGETQA CGSGACAAVAVGIQQGLLAE VRVELPGGRDLIAWKGEELQET LTELDRAVVDYLIKNEFFIRN ARAVEAIRVPHVRGTVSLVE WHMARARNHIHVLEENMALL MEQAIANEGLFYRLLYLQSLT AASSLDDMLRMFRHWARDLG LAVAMPVTINKGNQIENQLDT ETITISYEFILCQHIANTEFSYL ALPENYNRLCLPNSKNQTNRF KTLNSKAIGRLLAAGVYNGNI EGFRDTAEKLAVPPVQLLTGW CVTAKALPDISAISALTAVKHG NCSSLYTASQAGQ

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22517	52885	A	22645	1479	1793	TRYRSCPCSATDGVVRNGKST AGHQRYLCSHCRKTWQLQFTY TASQPAQG*RRNACQYRTPAV VASRQKRWHGDLGMIGSRDV MLFISDSVGAKELDLIIPLEDK SIALLAMITGKPTISPLGAAKAV LDISVEREACPMHLAPTSSTVN TLMMGDALAMAVMQARGFNE EDFARSHPAGALGARLLNKVH HLMRRDDAIPQVALTASVMDA MLELSRTGLGLVAVCDAQQQV QGVFTDGDRLRRWLVGCGALT PVNEAMTVGGTTLQSQSRAIDA KEILMKRKITAAPVVDENGKLT GAIKLQDFYQGRGLFNPSIPRVS TADAGLANRARNWVGSSWK QVGQIILQGGPQNAEKSGQRYT VSHDRHRDAERQRVKSGLPY AECSTYPCPVALDLAFASHGI HMHAPGEALRMLVTAMDKAA DARTKLARLLATKGITHEIQIPD ISTKEKAQQPIGLNMEQIKPEKQ DFIKPVIPQAGKHNGVNMVLR SLLTAGVLASGLLWSLNGITAT PAAQASDDRYEVTQQRNPDAA CLDCHKPDTEAVPPVQLLTGW CVTAKAPPDISAISALTAVKHG NCSSLTPLLNPPGSDVIVCAELD EQWGYVGAKSRQRWLFYAYA QSPRTTRCCARIRLHALWRRW

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22518	52886	A	22646	807	1350	NRGCPSCSATDGVVRNGKSTAGHQRVLC SHCRK TWQLQFTYT ASQPAGQ*RLNRLIEPTRGQV LIDGV DIAKISDAELREVRKKI AMVFQSFALMPHMTVLDNTAF GMELAGINAEERREKALDALR QVGLENYAHSYPDLSGGMQRQ RVGLARAINPDILLMEAFSAL DPLIRTEMQDELVKLQAKHQR TIVFISHDLDEAMRIGDRIAMQ NGEVVQVGTPEILNNPANDY VRTFFRGVDISQVFSAKDIARRT PNGLIRKTPGFGPRSAKLLQD EDREYGYVIERGNKFVGAVID SLKTAAPPVQLLTGWCVTAK APPDISAISALTA VKHGNCSSLT PLLNPPGSDVIVCAEMDEQWG YVGAKSRRQWLFYAYDSL RKT VVAHVFGERTMATLGRMLSL SPFDVVIWMTDGPWLYESRLK GKLVHISKRYTQRIERHNLNLR QHLARLGRKSLSFSSVELHDK VIGHYLNKHYQ
22519	52887	A	22647	1	1270	MTAATEQLNASRGLSTREMER QAEAKITTDYINSGGSEGDEK LQNMKAQNDYYAAEDAKRA DWLAGAESAFADYGD SAMDM YGNVNEIASSALNGMTMMV QFLTGTGKAFADF AKNIISMIIK MIAQMVIFNTSLRNDGRSVSSG GAAVSLAAAAGSVATSGFNAS NSAPKVVITIREVERSDVSGME ASSTSWITIRSFATETSTFGPTM TASMTFLPTYCSIIASLLSSFKLA AATDGVVRNGKSTAGHQRVLC SHCRK TWQLQFTYTASQPALA RNPNRDITIYWGGREEQHLYDL CELEALSLKHPLQVVPVVEQP EAGWRGRTGTVLTA VLQDHAT DGVVRNGKSTAGHQRVLC SHC RKTWQLQFTYTASQPGTHQKII DMAMNGVGCRTARIMGVGL NTIFRHLKNSGRSR

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22520	52888	A	22648	381	945	GAPVASVSI SCPCSATDGVVR NGKSTAGHQRYLCSHCRKTWQ LQFTYTASQPAQ*RTENQTPH VLTHKWELNYENPWTQGGHLL TMGLVVGWRGLQEGDPARTN LSYYQANVGSGQHRENGKPIN LGNVGKSNGERGGKSLYRCKIF LESSVTMKDRELPPVYDGVFEV LQWLLFLSAVPPVQLLTGWCV TAKAPPDISAISALTAVKHGNC SSLTPLNPPGSDVIVCAEMDE QWGYVGAKSRQRWLFYAYDS LRKTVVAHVFGERTMATLGRLL MSLLSPFDVVIWMTDGWPLYE SRLKGKLVHISKRYTQRIERHN LNLRLQHLARLGRKSLSFKSVE LHDKVIGHYLNKHYQ
22521	52889	A	22649	354	1119	RRWRRGAHEAATGGTGRGPAE EAAPEGAAGRAAPKSGGKRL GGVLGRG GVGRRSGSPDRSGA HSAAPRRRCRLPGRCSCSATD GVVRNGKSTAGHQRYLCSHCR KTWQLQFTYTASQPAQ*RSK GAIGEGPPDRGIVEQNLGGDIS IPCYNRP RRRSAQKTTLGLPN QPRIPSAQCAGAFPRVAAAGAG GGGGGGSGSGFCLGWRLRRR RQRRRRWRRGEGEGDGDAGH MRPRPAGRAEARRRRLRGPN PPGARLPNREGNSGVSWAEE VSGDGRGARTEAARTRRRPGG ADNYPGA VPPVQLLTGWCVTA KAPPDISAISALTA VKHGNCSSL TPLNPPGSDVIVCAEMDEQW GYVGAKSRQRWLFYAYDSLRLK TVVAHVFGERTMATLGRLLMSL LSPFDVVIWMTDGWPLYESRL KGKLVHISKRYTQRIERHNLL RQHLARLGRKSLSFKSVELHD KVIGHYLNKHYQ
22522	52890	A	22650	23	658	VISRFSGSIQVRGLLLSRHGLAL GSAPDLWKLPPWNLVQGMGQ QSQSSCREGCSRPQCPSAAPC GAAPAHFCSAATFWESEVQSIP R/CRATDGVVRNGKS/TAGHQ RYLCSHCRKTWQ/LQFTYTASQP EVIRSSPTAPRSDGKTVPPLM GISP*SAHHRLATSDPSLCLSES LCSREPA AVPRASNQQPQGVK DVHHQFTARTSRYPSC
22523	52891	A	22651	926	1093	

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22524	52892	A	22652	343	817	GGARSRQNPRCGPCMVVVPGQ SGRSVSADSSTEFREQGGVAIS FPKSINRAGPELFRFMENPFNSV *YRKNVRELTPAIMAVLPVEFR TRLAPQNDTMSLIASAMKECSE AKQAVLLNAPEHQMKKEVSEG IASLFRLMPEQVGPLMTMVT MLGVI
22525	52893	A	22653	115	425	
22526	52894	A	22654	747	1173	
22527	52895	A	22655	1	2709	
22528	52896	A	22656	1	2583	
22529	52897	A	22657	636	1029	APSDQKRDFLVPHGADSAMAK SG*CESGNDLSSSHMNQLR/A/ ESIPEDVIAGASALVLTFIKFI AENPQWWQFLKDHVSILAMN EDEAEALTGESDLLASDKALD WVDLVLTCTAGPIGLYMAGGGD VN
22530	52898	A	22658	1611	3300	QSAWANRHLRVDCRPGNGSD AGVAARSGRNDGTGRCLCHS CSRYGDHHRQSDRIYRHYDAG RSPSGAVDYGTRQGRNFRSAV YPVGA/RRWR*GLPLV/QQFQPE NETSAAWVVGINQPLVDIEAK VDDEFIERYGLSAGHSLVIEDD VAEALYQDVQQKNLITHQSAG GTIGNTMHNSVLAADDRSVLL GVMCSNIEIGSYAYRYLCNTSS RTDLNLYQGVDGPIGRCTFLIG ESGERTFAISPGHMNQLRAESIP EDVIAGASALVLTSLVRCKPG EPMPEATMKAIEYAKKYNVPV VLTGTGTFVIAKNPQWWQFL KDHVSILAMNEDEAEALTGESD PLLASDKALDWVDLVLTCTAGPI GLYMAGTFEDEAKRKTQHPLL PGAIAEFNQYEFSSRAMRHKDC QNPLRVYSHIAPYMGGPEKCN LGRSGWLLYGRGLDKQRLTQY QSKLGAAMVIVAACWVEDYQ VIRLAGSLTARATRLAHEAQLD VAPLGKIPHLRTPGLLVMDMDS TAIQICIDEIAKLGTGEMVAE VTRTGDARRTRFYRQPAQPCG
22531	52899	A	22659	430	586	
22532	52900	A	22660	1	131	

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22533	52901	A	22661	1	1282	MLPAHLDACVTTLQKIRWTL VVDPPTLALRVPLALSRDDPPL RAYLPGRGALKVIRFDDMDFA TIDGINRMLVDIDTNYLFLPRVT SSTIRCLSVPTRTVPAVTASGR SVKYYPPDFDPSKIPKLLPKD RQYVVRLMAPFNMCRKTCGEY IYKGGKFNARKETVQNEVYLG \LPI\RFYIK\CTRCLGRDSPFKT DP\ENTDYTM/ESLGATRNFGQ* EASWEEEEKRVQK\EREDE/ES LNNPMKVLENRTKDSKLEMEV LENLQELKDLNQRQAHVDFEGV MLRQHRLSEEEERSQQQEEFEQ KTAALLEEARKRRLLEDSDSED EAAPSPLQPALRPNTATLDEA PKPKRKVEVWEQSVGSLGSRPP LSRLVVVKKAKADPDSCNGQP QAAPHPRSPAEGEGGPYTPDA WRVLPPTGCPGQ
22534	52902	A	22662	1	412	
22535	52903	A	22663	298	532	MGSWSLPGRTLWKEKVRFLKS KERTNPGSNFFSPGQHTREER SQECLSLPVLPSYLATRLSLPDS CPLKGRKAH*QRHSEI*LMGFE PGWPGKL*GWIELAFLGCLHL TLPLPCPTPLPPKSTKSGCFLSI ALCFNKQFAVTK
22536	52904	A	22664	1	193	
22537	52905	B	22665	55	281	
22538	52906	A	22666	86	159	
22539	52907	A	22667	63	1036	VRGGLAAGRGRGSAGAAPVVV AAMLGA WAVEGTAVALLRL LLLLPPAIRGPGLGVAGVAGAA GAGLPESVIWAVNAGGEAHVD VHGIHFRKCIPL*GRVGRALYY GMKLPILRSNPEDQSCYQTE\RS N\ETFGYESPIQREGGLTCWSL KFAEVVYFAQSQQKVFDVRLNG HVVVKDL\IFDRVGHSTAHDEI IPMSIRKGKLSVQGEV\ST\FTQG KLLPLSFSKGYL*PIPKVCALYI MAG\TVDDVPKASAFNPGLEK KEEEEEEEYDEGSNLKKQTNK NRVQS\GPRTPNPYALDNSSL MFPILVAFGVFIPTFLCLRL
22540	52908	A	22668	1570	1773	

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22541	52909	A	22669	62	454	NKQLNKKRRRTMIALIQRVTRA S/VTVEGEVTEIGAGLLV/LLG VEKDDDEQKAN/RDAEQGM/N LNVQQAGGSVLVVSQF/TLAAD TERGMRPSPFSQGHHRRAQAFY DYFVES/CRQR*YAQGGLSAE FRLLNS
22542	52910	A	22670	1	1930	MAGKPEYDKTISTIVL.NALNA LGVSAEASGRNDLVVKTVEGD RKVSGSAYRETKDRGFHHGTL LLNADLSRLANYLNPDKKKLA AKGITSVRSRVNTLTELPGITH EQVCEAITEAFFAHYGERVEAE IISPNTPDLPNFAETFAQQSSW EWNFGQAPAFSHLLDERFTWG GVELHFDVEKGHITRAQVFTDS LNPAPLEALAGRLQGCLFSLYN SDLNTVIDNVLRIFFLLSWISF WLLYSIVPTIRVFNDAIVGAFV AALLFEAGKKGFALYITMFPST QLIYGVLAIVIPILFVWVYWTCV TVEGEVTEIGAGLLVLLGVKE DDDEQKANRLCERVLGYRIFSD AEGIKMNLNVQQAGGSVLVVS QFTLAADTERGMRPSPFSKGVID DIGFNTEISQTRFHQASHLFKRR GIYRLHFARRCQIQRRQRRR RFMQRTAVAITHQORMKQGIL RLWRNWLLWLLILLRRNRLL RLLILLWRNRLLRLLILWLR NRLLWLLILRLRRNWLLRLLIL LLRCNRLLRLLYRFNNWRKQR FVWTIIQQRFWRKFKIQRERI RPSRLFAGITLLLSRLKTSQFS LCRSICIFCVYGHIMILFAJALL LCLGELTCQFILLHRIDFIIVLI
22543	52911	A	22671	377	463	QTISQTTVQSN*NSGLRISPKTA QLHGD
22544	52912	A	22672	129	615	KARQKSCQPVTTDTQCRHTSSS IGKRLAFQNLQIHTESTMKP WILLVVMFISGVVMLLPVLGSGF WNKDPFLDMIRETEQCWVQPP YKYCEKRCTKIMTCVRPNHTC CWTYCGNICLD/IRRA*/HQC* TPRFYWPITTVG*RMTIWSKKS AAFYLLGTPTWL
22545	52913	A	22673	3	412	
22546	52914	A	22674	2	390	



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22547	52915	A	22675	180	507	CCGGRARSELCLLNLCIKGAD*I QAW*KFCQWPCERADGRGCRK AERICPCPKGAYSL/YCRESVCC LPSFVNKNSSSLCVAHNWGRH CYLWTAADVQFISSHMFPVE HL
22548	52916	A	22676	3	227	GGGRARSELCLLNLCIKGAD*I QAW*KFCQWPCERADGRGS*F DRGAEVNQTWQSISSQGG RDQRFFTERA
22549	52917	A	22677	567	842	
22550	52918	A	22678	1	1400	MGWGQGPDPVQLMNGHERSPS HSPREAKKSGSPLTDIHCFSPQ SQPAMVITGVPTAPAGASAKM GLCATPITGACPLWLRGFRGWR CEDRCEQGTYGNDCHQRCQCQ NGATCDHVTGECRCPPGYTGA FCEDLCPGKHGPQCEQRCPCQ NGGVCHHVTGECSCPSGWMLS FPGWRPI*FSKSL*MQGTVCQG PCPEGRFGKNCSQECQCHNGGT CDAATGQCHCSPGYTGERRAAV PDVRKICQDECPVGTGYVLCAE TCQCVNNGKCYHVSACLCEA GFAGERCEARLCEPEGLYGICD KRCPCHELENTHRGDDREKA EF GHLLIALEVQYTEISNCIEKSQE ASCYDIRMLKQPYGETNTEEL AVNYVYSIYASKEQIRYKHGRS FANGHVKELMEGFSRRRIGSGG EKYKRDEEKNLTLRGQNRGGR GKNPKTKAWVKIQGQNKIEIS GVGADRKRFFREK

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22551	52919	A	22679	1	2210	MEQKGFEKNDTLIYEFFHIVAK PHPLIKSSTYTTTFSARVTRFF LDAEKECRCEGQVVEAALIAM GGTCQGTQRLSTAGESESATH MREPAVQCRRDSQCVSVLAGR RRFFQGAASPLHPASVALTQLIH VRWASTATIGQVSGFPGKIRVS PTTNLGDSDYIFTASHWGLGHY GPAVHVHSQGGIDERGSNDSG RLYVTNPGGNVPSWTPNIDRLA EDGVKLTQHISAASLCTPSRAA FLTGRYPVRSGMVSSIGYRVLQ WTGASGGLPTNETTFAKILKEK GYATGLIGKWHGLNCESASD HCHHPLHHGFDHFGMPFSLM GDCARWELSEKRVNLEQKLN LFQVLALVALTLVAGKLTHLIP VSWMPVIWSALSAVLLASSYF VGALIVHADCFLMRNHTITEQP MCFORTTPLLQEVASFLLKRNK HGPFLLFVSFLHVHPLITMENF LGKSLHGLYGDNVEEMDWMV GRILDTLDVEGLNSNTLIYFTSD HGGSLNQLGNTQYGGWNGIY KGGKGMGGWEGGIRVPGIFRW PGVLPAGRVIGEPTSLMDVFPT VVRLAGEVPPQDRVIDGQDLL PLLLGTAQHSDEFLMHYCER VLHAARWHQRDRGTMWKVHF VTPVFQPEGAGACYGRKVCPCF GEKVVHHDPPLLFDLSRDPSET HILTPASEPVFYQVMERVQQAV

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22552	52920	A	22680	185	2091	GSTERDNLHLHHCVCFRSW LPAMLA VLLSLAPSASDISASR PNILLMAIDDHGVGDIGCYGN NTMRTPNIDRLAEDGVKLTQHI SAASLCTPSRAAFLTGRYPVRS GMVSSIGYRVLQWTGASAGFT TNETTFAKILKEGYATGLIGK WHLGLNCESADHCHPLHHG FEHFYGMFSLMGDCARWELS EKRNVLEQKLNFLQVLALVA LTLVAGKLTLPVSWMPVWS ALSAVLLASSYFVGALIVHAD CFLMRNHTITEQPMCFORTTPLI LQEVASFLLRNKIHGPFLLFVSF LHVHPLITMENFLGKSLHGLY GDNVEEMDWMVGRILDTLDV EGLSNSTLIYFTSDHGGSLNQL GNTQYGGWNGIYKGGKMG WEGGIRVPGIFRWPGLPAGRV IGEPTSLMDVFPTVVRLAGGEV PQDRVIDGQDLLPLLLGTAQHS DHEFLMHYCEFLAARWHQ RDRGTMWESPTL*PPCVSSQEG AGACIVGRKVCPCFGEKVVVHH DPPLLFDLSRDPSEHTILTPASE PVFYQVMERIVQQA VWEHQR TLSPVPMQLDRLGNWRPVMQ PCCGPFLCWCLREDDPQINVC SEKLEPRFLNFVTQIETNQLAM
22553	52921	A	22681	209	392	
22554	52922	A	22682	1	513	
22555	52923	A	22683	3	613	
22556	52924	A	22684	1	2115	

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22557	52925	A	22685	53	1966	VGQPRGLRRTLEKLTASVAGGA ANFFGDIERDLGPRDTSRGIRG GNLGDRCSSAEMAYASWQR WSPVEWARWMWTAVTSSGDS SLLVLQGDSDGKRSSDSEAFET PESTTPVKAPPAPPPPPPEVIPEP EVSTQPPPEPGWGSETVPVPD GPRSDSVEGSPFRTQAHFSGVF DEDQPIASTGTDILDFDNIELVD TFQTLEPRASDAKNQEGKVNT RRKSTDSVPISKSTLSRSLSLQA SDFDGAASSGNPEAVALAPDAY STESAKRVVPPASGGGRVQNSP PVGRKTLPLTTAPEAGEVTPSD SGGQEDSPAKGLSVRLFYSE DKSSWDNQENPPPTKKIGKKP VAKMPLRRPKMKKTPEKLDNT PASPPRSPAEPNDIPIAKGTYTF DIDKWDDPNFNPFSSSKMQES PKLPQQSYNFDPTCDESVDPF KTSSKTPSSPSKSPASFEIPASA MEANA V DGDGLNKPAKKKKKT PLKTMVEDVMSVCSLFDTRV KKSPKRSPLSDPPSQDPTPAATP ETPPVISA V VHATDEEKLAVTN QK WTCMTVDLEADKQDYQPQS DLSTFVNETKFSSPTEELDYNRF YEIEYMEKIGSSLPQDDDAKK QALYLMFDTSQSFVKSSTVR

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22558	52926	A	22686	662	2927	HLRRKRNLPRREGLSPALLEET PLEPAVGPKAACPLDSES AEGV VPPASGGKRCLFTTAPAEAGEVT PSDSGGQEDSPAKGLSVRLEFD YSEDKSSWDNQENPPPTKKIG KKPVAKMPLRRPKMKKTPEKL DNTPASPPRSPAEPNDIPAKGT YTFIDIKWDDPNFNFPSSTSKM QESPKLPQQSYNFDPTCDES DPFKTSSKTPSSPSKSPASFEIPA SAMEANGVDGDLNKPAAKKK KTPLKTDTRFRVKKSPKRSPLSD PPSQDPTPAATPETPPVISA VVH ATDEEKLAVTNQKWTCMTVD LEADKQDYPQPSDLSTFVNETK FSSPTEELDYRNSYEIYMEKIG SSLPQDDAPKKQALYLMFDT SQESPVKSSPVRMSEPTPCSGS SFEETGSLRNTAAKNQ\HPVP TRDWAP*PRSHLAGCQRKSSQ E/VELGGPWGLGHFPQEGDLKF TASPRGSFASADALLSRLAHPV FSL/CGALDYL\EPNFRQKRNP LFAQKLQREA\VHPTDVS\SKT ALYSRIRTTVEKPAGLLFQQP DL\DSALQIARAEL\TKEREVSE WKDKYEESR\REVMEMRKNLA EYEKTIAQMIEDQREKSVSHQ TVQQLVLEKEQA\ADLNSVEK SLADLFRRYKMKEVLESFRK NEEVLRKCAQEYLSRVKKEEQ RYQA\LVHA\EEKLDRANAEL
22559	52927	A	22687	374	1268	AETNMVWYDWMRPSHAQLHS DYMQLPTEAKAKSKNKVRGV QQLIQRRLRIKSPA EIERMQIAG KLTSQA FIFTMFTSKAPVEEAFL YAKFEFECCRARGADILAYPPVV AGGNRSNTLHYVKNQLIKDG EMVLLDGGCESSCYVSDITRTW PVNGRFTAPQAELYEA VLEIQ DCLALCFPGTSLENIYSMMTLI GQKLKDLGIMKNTQ GK*CL/RR LLE/QYCPHHVGHYLGMDVHD TPDMPRSLPLQPGMVITIEPGIYI PEDDKDAPEKFRGLGVRIEDDV VVTQDSLILSADCP

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22560	52928	A	22688	329	1389	RIWKTQMMRRMKMMMMMM MMMRITTLFFQESQEAIFFFD LFPMCPFGCQCYSRVVHCSDLG LTSVPTNIPFDRMLDLQNNKI KEIKENDFKGLTSLYLILNNN KLTIHPKAFLTTKLRLRLYS HNQLSEIPLNLPKSLAELRIHEN KVKKIQKDTFKGMNALHVLEM SANPL**/SMGIEPGAF*RG*RC S/YIRIAEAKLTSVPKGL/PPTLLE LHLDYNNKISTVELEDFKRYKEL QRLGLGNNKITDIENGLANIPR VREIHLGNIKLKKIPSGLPKLY LQIIFLHNSIARVGVNDFCPTV PKMKKSLYSAILFNPNPVKYWE MQPATFRCVLSRMSVQLGNFG
22561	52929	A	22689	1	4608	
22562	52930	A	22690	1	465	
22563	52931	A	22691	1	1542	
22564	52932	A	22692	1	4226	EAVLCSSRRGRPDSSMPDCCRNA ALEARSCQSMSTLSFNTVSPTQ DGTSSLPRRQSSFAKPLRALY DLLIAPMEGGVVESTEPLGTSR SGFASGTALFWLGDNGKAASP PGVSVSSLENNEDNTQCNRLQ GYREAAVPDWTQDLALCLLPT LQSLKARTAPHLCVPSSCYKA WYTLAVSKVSGMVEGKAWIIL LLAASTHALLQRPEGDITPL AGSRAAAVSCQARPFTSFGLM HSSGPVGRHRQLILVLE
22565	52933	A	22693	2	4197	ALDFPGRFRPTASFIWASVLF TIRHEAEVSTDYKLSLFDLTSS YQALQVRVLSLGHHDALAVA ERGRTRAFADLLVERQTGQQD SDPYSPVTIDQILEMVNGQRGL VLYYSLAAGLYSWLLAPGAG IVKFHEHYLGENTVENSDFQA SSSVTLPTATGSALEQHIASVRE ALGVESHYSRACASSETESEAG DIMDQQFEEMNNKLSVTDPT GFLRMVRRNNLFNRSCQSMST LFSNTVSPTQDGTSS
22566	52934	A	22694	1	618	
22567	52935	A	22695	1	3528	

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22568	52936	A	22696	85	1193	RPIEGQLGTCHPGSEPRTIRWRA PGKGLRLYTHPPTSDIAGRTGA AASFAPLHLPREPRAGVDGTD AERILYPRRAAPAAAGVGSRPA GEAVRADEAGAAAGLGGFQSER NRSWGGEGLGRQPKMPAFN RLFPLASLVLIY*VSVCFPVWGE VPLENGGRARANPMKLRICSI MKREEVEATTVVEWFYRPEGG KDFLIYEYRNHGHQEVESPFQGR LQWNGSKDLQDVSITVLNVT NDSGLYTCNVSRFEFEFAHRPF VKTTRLIPLRVTEEAGEDFTSV VSEIMMYILLVFLTLWLLIEMIY CYRQVSKAEAAQENAPGNSL EGGSQGLQINSTQDGLVTGQQ DVGSHRAREHMPDFEPPSAK
22569	52937	A	22697	277	527	VRVSWEYFCAPGAPGSPAGPG RGEKQRLGLLIRDARSPAPPG PPVGSVRG/PKPAPAGRVRKAG RRA*GAACSLAAGAWVEPGI

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22570	52938	A	22698	226	2268	SVKNTYKCHVRNEQICNKLTSCKSCSLNLCQWDQRQCEQCALPAHLCEGEGWSHIGDACLRNVSSRENYDNAKLVCYNLSGNLASLTTSKEVEFVLDEIQKYTQKQVSPWVGLRKINISYWGWEWMSPPNTNTLQWLPGEPNDSGFCAYLERAAVAGLKANPCTSMANGLVCEKPVSPNQNARPCCKPCSLRTSCSNCSTSNMGECMCWCSSTKRCVDSNAYIISFPYGGCLEWQTATCSPQNCGLRTCGGCLEQPGCGWCNDPSNTGRGHCEGSSRGPMKLIGHMHNEMVLDTNLCPKEKNYEWFSIQCPACQCNHSTCINNVCQCKNLTTGKQCQDCMPPGYGDPNTNGGQCTACTCSGHA NICH LHTGKCFCTTKGIKGDQCQLCDSENRYVGNPLRGTCYYKTLIDYQFTFSLQEDDRHHTAIYFIVNPKQSNKNLHISINASNNFNLNITWPC*STAGTISGEETYIVSKNNILEYRDSFSYEKFNFRSNPNITFYVVSFNFSWPIKQIAFSQHNTIMDLVQFFVTFSCFLSLLL EAAVVWKIKQTCWASRRREQLLRERQQMASRPFASVDVALEVGAQEFTFLRPLEGAPKPIAIEPCAGNRAAVLTVFLCLPRGSSGAPPPGQSGLAIASALIDISQKASDSKDKTSGVRNRKHLSTRQGT
22571	52939	B	22699	252	360	
22572	52940	A	22700	1	84	
22573	52941	A	22701	1	404	
22574	52942	A	22702	86	292	NPEMRCREFCLPSCRPELALE*G*SVRDVA*AQMCSVVWAGRPLGFAA*S*GSGHSCGRCSIWGE CWG
22575	52943	A	22703	82	379	HTLQPFISMGS LTKMFKVISEGPM D*RPHPKVRPMT*HSTPAPANFMGHHFFWKIMICTDRTEVATLVAGVVS GASVGGKSPPYRK WNSPEPDVKGPRLV
22576	52944	A	22704	2	382	



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22577	52945	A	22705	1	479	HMPSGETAPLRIVDTGTGTGTV VAYAPTEVGLHEMHKVMASHI LESPLRFYVTTPTVPSVSA YGPG LVYGVAN/NTATFTIVTEDAGE GGDLAIEGPSKAEPRPRLSRA PGVDGAGASPLGLEDTGQAP GLQVLTERRIPGPSAPTEFLSVG VSAVC
22578	52946	A	22706	1	590	
22579	52947	A	22707	171	406	
22580	52948	A	22708	269	2477	
22581	52949	B	22709	167	7472	
22582	52950	A	22710	1	520	
22583	52951	A	22711	2218	2472	
22584	52952	A	22712	722	1555	SRNWYEALNNTWGREDICVVD GWQSFRRQDYAF LQERGS GGD LWSSTLAQAMTLVESRPHRHQ ALSTQLLD AIMPYCGNTRLRLGV TGTPGAGKSTFLEAFGMLLIRE GLKVAVIA VDPSSPVTGGSILG DKTRMNDLARAEEAFIRPVPSS GHLGGASQRARELMMLCEAAG YDVVIVETVGVGQ/SETEVARM VDCFISLQIAGGADDLQGIKKG LMEVADLVINKDDGDNHTNV AIARHM/YESALHILRRPPMHR VPRNPKNLLPGTAMANLLS
22585	52953	B	22713	381	425	
22586	52954	A	22714	1	1185	
22587	52955	A	22715	1	3009	
22588	52956	A	22716	22	527	YEGIVMKPLIIVNPADCIGCART CEIVACVVAHPSEQLNADVFL PRLKVQRLDSAPVMCHQCEN APCVGACPVGALTMGEQVVQT NSARCIGCQSCVSACPFMITIQ SLPGDTRQIVKCDLCEQR*EG PACVESCPTQALQLLIERELRRV RQQRIVVTGENPL
22589	52957	A	22717	187	325	

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22590	52958	A	22718	1	2240	MRSDPDTSVNEIETKLSALLGS ETTGEILFDLLCANGPEWNRV TLEMKYGRIMLDATAIIDEQDV PTHILSKLTFTLRNHPEGVVMK NFEVLQPLQNSLSGLPLVWSE ILQQINQLTHYEPVIGIMGKTGA GKSSLCNALFAGEVSPVSDVAA CTRDPLRFRLQIGHEFMTIVDLP GVGESGVRDTEYAALYREQLP RLDLILWLKADDRALATDEHF YRQVIGEAYRHKMLFVISQSDK AEPTSGGNILSTEQKQNSRKIC LLHELFPQVHPVCAVSVRLHPV VALLQQFRTDDETRHYHYDS QHRLVDYTRTQYEEPLVESRYL YDPLGRRVAKRVWRRERDLTG WMSLSRKPOVTWYGWDGDR TTIQNDRSRJQTIYQGSFTPLIR VETATGELAKTQRRSLADALQ QSGGEDGGSVVFPPVLVQMLD RLESEILADRVSEESRRWLASC GLTVEQMOMQMDPTEGTTAW Y/AEYDEWGNLLNEENPHQLQ QLIRLPGQQYDEESGLYYNRHR YYDPLQGRYITQDPIGLKGGW NFYQYPLNPISDIDPLGLSMWE VARQMNAIASKLPEGFHIGINFS ASHIISPTFVDECLNFRDSFTRR DLNLVLEVTERDLLNVDES LVQ RLNILHENGFIALLDDFGTGY GLSYLHDLHIDYIKIDHSFVGRV NADPESTRILDCVLDLARKLSIS

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22591	52959	A	22719	1	2301	MALTSGVHTGEKPYKCAQCEE AFSRKSELIHIIHTGEKPYECT ECGKTFSRKSQLIHHRTHTGEK PYCKTKCGKSFQQSHLIGHQR IHTGEQPYLGLSVAERPKEYED DRALKMAAPCGNSSREQPCCFL NKASEDAERAKPPS*EPGRLRT P*VAQPH*VPHFMATWVRKHP VHDRQFRLHGQIRELNWDVVR PEQFTGVA TNCSGITYPQGGWL CPAELTRNVLELAQQQLQIYY QYQLQNL SRKDDCWLLN FAGD QQATHSVVVLANGHQISRFSQT STLPVYSVAGQVSHIPTPELAE LKQVLCYDGYLTPQNPANQHH CIGASYHRGSED TAYSEDDQQQ NRQLIDCFPQAQWAKEVDVS DKEARCGVRCA TRDHLPMVGN VPDYEATLVEYASLAEQKDEA VSAPVFDDLFMFAALGSRGLCS APLCAEILAAQMSDEPIPM DAS TLAALNPNRLWVRKLLK GKAV KAG
22592	52960	A	22720	1021	1734	
22593	52961	A	22721	1247	2412	RRSHHAANLDIRIMPQTRQVT LPDPELHPDSTLSMWPDRRIAR DAHLYLYRDRHGRLTEKTDLIP EGVIRTDDETHRYHYDSQHRL VHYTRTQYEEPLVESRYLYDPL GRRVAKRVRRERDLTGWMS LSRKQVTWYGVWDGDLRTTIQ NDRTRIQTIIYPQGSFTPLIRVET ATGELAKTORRSLADALQQSG GEDGGSVVFPPVLVQMLDRLE SEILADRVSEESRWLASCGLT VEQM QNQMDPVYTPARKIHL HCDHRGLPLALISKEGTTEWCA EYDEWGNLLNEENPHQLQQLI RLPGQQYDEESGLYYNRHRY DPLQGRYITQDPIGLKGGWNFY QYPLNPVTNDPLGLEVFPRFP LPWPWKSPAQQQWYPTFCC
22594	52962	A	22722	1	4767	

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22595	52963	A	22723	668	1922	YPHADSPECWLSSSSERGKSSV TADLSRPRRLRPIPTCHGKPIAC TTTKAKNAFRPIAGASATGRLA NSPIIILPNAAIRQEFGITLDPEEV FTFQGVKLYEYRYPDCVRSRN EAGILVEQILSTLFSVGEHFLK RAPFFKVPSLSFYAFGGLTTG VVRNRNGNIHVNTTPARKIHLHYH CDHRGLPLALISKEGTTEWCAE YDEWGNLLNEENPHLQQLIR LPGQQYDEESGLYYNRHRYD PLQGRYITQDPGLK/GGWNFY QYPLNPVQYIDSMGLASKYGH LNNGGYGARPNKPPTDPSPKLP DIAKQLRLPYPIDQASSAHNVF KTFFRALSPYDYTL YCRKWWK PNLTCTPQDDSQYPGMDTKTA SDYLPQTN/WVPSSIVSCTTGV VP*VVCQWVFA WPPDISHRRTG
22596	52964	A	22724	25	510	RITDFGVKKIIRVSGCGAVLPHV KL RDVVI/GMGAC/TDSKYNRI RFKGQAFGGIADFAMGRATAVD PGKALGINARVGNLVSADLFYS PDGEMFDVMEKYGILGVEMEA AGIYGVAAEFGAKALTICTVSD HIRTHEQTAAERQTTFNDMIKI ALESVLLGDKE
22597	52965	A	22725	415	759	HRRRIVDDTGIFRPRNTAQQLR QRPIAMSASGVVQIILEGHWRT HSLRNGFHRGRL*SSPKVGMQ HGSROVDHRTQRALRFFRQPGI DFLRPVFTPRRQRLAATNHFSR FVEH

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22598	52966	A	22726	2	2329	GTLPGCGAMHTCPSPGPATHLV RRRRVRLPACVVTRANVPTPSR PVNATIGAFHSG*MASQGRRLS AQYPWSPFQY A\ARPVPTVPGR LVFTGTSKAPKISVMGPGMGIP SCSISAKELITDFGVKKIIRVGSC GAVLPHVKLRDVIIGMGACTD SKVTRIRFKDIIAFAAIADFDMV RNAVDAAKALGIDARVGNLFS ADLFYSPDGEMFDVMEKYGIL GVEMEAAGIYGVAAEFGAKAL TICTVSDHIRTHEQTAAESQTT FNDMIKIALESVLLGDKEEDRVI RFGKARATRYALLRPYRGIERIP VWRVDDTGKAHKFADIRLCWP QGSCLDVAKAREVIRGSQPLPA WCENWAQEV DARLTKEAQA LRPVINLTGTVLHTNLGRALQA EAAVEAVAQAMRSPVTLEYDL DDAGRGRDRALAQLLCRITG AEDACIVNNNAAVLLMLAAT ASGKEVVVSRGELVEIGGA FRI PDVMRQAGCTLHEVGTNNRTH ANDYRQADFQDDFVMAFTQN INGPTQNTRALHGGHKRPDFLP LLGAFHGAIDILAPGGLHGYSL PSSFFHALALSAAPGKRCKLS VHLPFWGLKDGGPLLTAPLGG ALVGIVGGVGGSNLTFPFHTNF LNVRFVIRRIISHRIHIFYRIAKL LMNGAQGSNMLIAAVAGVPHQ NGHFPFTVADRFAIVLSEGSIRV
22599	52967	A	22727	1	702	
22600	52968	A	22728	876	1318	RCHLANASPAAGSHAPSPDSLS/ KIR/QEVG/PPLP/PLLA PLIATPP RTSQPLSLISSSPSPSPAS PVGQ VSPFRETPVPAMPSPWPEDPRR ASPPDPSPSAASASERVVPSP LQFCAATPKHALPVPGRLLPPCA SGHAMPCWRACKIK

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22601	52969	A	22729	485	1455	PVVQRARNASSCQPFSTSVWAI PSISATSVPMCGATHSILSPKKS TVSDRIGSMQISFFPLSRSAEK* ESPCSSDAFHAIFSVLSGLALHS TTTSLCSSTSGQLVCC*TSLPPT TYGMIACAAPVE*SPRCPV*PPA SAI*RCNNVEALCSTPFERQP*E PAKISMPDHPHECVVVG*E PAPHPNSREQIHPAHECLAGFP VTQESLFAPLEIVPAYCCEPGRE PRSARSFPFAPREL T*VQLELGT GL*RETLDLVVSAGWA*ARRIS GAVTATPETGTLCQLDSGAECH YRETGVLP*RSRPVGHGSSR IISRRWRT
22602	52970	A	22730	814	5001	PENSSHRPKPIIPMIASLTINANQ NSVSPYKRTFTRLTALMIKKKA AAQIHVGTSGNQYWRKLD FNS PGGSSPVENS DCS TNSRLSFSPE NILIQNQDIVREA AVQGDGQKQ RQPQATDLDSGTHGSEMLPAT EVTVSGGFSVEETSCGDTGRSG GEALAVANDSTSTPQNANGLW KLKSTTPGGALPECFGTDTDTFS SAFCRKHGETQDTSQSSLPGLT HCYTGIREGGDDTEVESEAFSC SEGSEQQDAPD
22603	52971	A	22731	34	102	
22604	52972	A	22732	584	893	QKLLPNRMGHPVFKSSQDPV LLSRIA WKDASTVTWVIEQDPV LRRRRRTTRRRRTRMRRRRGR* */SKRRRMR/GRRRGR*CRRRRR RSSRSRPTRRQRNRNQV
22605	52973	A	22733	2	269	IGKLYWFMPPSANLALREL GIV LFLSVVGLKSGLSWIGYGALIT AVPLITVGILARMLAKMNYLT MCGMLAGSMTDPPA*PRFQTN DREEQHDPQLPQREVGA WRHK PVQLAD

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22606	52974	A	22734	3	958	RCYSLLSRAPHPGIYISIAERV*IRLNSANFTLNSLLPAEKKLAEEFAVSRMTIRKAIDLLVAWGLVVRRHGSGTYLVRKDVHLHQTASLTGLGEVLKRQKTVTSQVLIFEIMPAPPAIASQLRIQINEQIYFSRRRVFVIEGIPLMLEDSPMPVKLFRNLSLQHLEGSKFYIEQECGILIGGNYESLTPVLADRLARQMKVAEHTPLLRLITSLSYSESGEFLNYSVMFRNATQIQGWRSHFRRLHPKKSLTVPPEAPPVFGGLIMRKNHSQRIDSGVRERRRTAGWMKHSKRQRRRIGHGTCQHPAHGQVIHFG
22607	52975	A	22735	2	285	GDEMTTSTLQKAIDLVTKATEEDKAKNYEEALRLYQHPVEYFLHAIKYEAHSDKAKESIRAKCVQYLDRAEKLDYLRSEKHEHGKLCCLKDRVT
22608	52976	A	22736	545	791	NHKAIDLVTKATEEDKAKNYEEALRLYQHAVEYFLHAIKYEAHSDKAKESIRAKCVQYL YRAEKLKDYLRSEKHEHGKPKPVKENQSEGKGSDDSDSEGDNPEKKLQEQLMGAVVMEKPNIRWNDVAGLEGAKEALKEAVILPIKFPHLFTGKRTPWGRNLLFRPPGTGNSNRPKAGAPKATNSTFFSVSSDVKSKRLGETEKL*NLFLARQHKVPSIIFIDEVDSL CGSRNENESQAARRIQNGSSLVQIAGGLGINNDGDSGFFGATNIPWVLD/SAIRK V*KTGFYIPLPEKACPRPDVSRHLHGSTPHNLRVATFHKLARKTEGYSGADISIIVRDSLMMQPVKRVQSATHFKKVCGPSRTNPSMMIDDLTPCSPGDPRAMEMTWMDVPGDKLLEPVVCMSDMLRSLATTRPTVNADDLKVKKFSDFGQES
22609	52977	A	22737	249	1574	
22610	52978	A	22738	52	567	
22611	52979	B	22739	1	1293	
22612	52980	A	22740	443	1027	
22613	52981	A	22741	2077	2430	
22614	52982	A	22742	1	504	

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22615	52983	A	22743	3244	3947	RNEITPFRAMMIIRMAHRFQT EEIKRISFIKRRVGNKDEINPGA RWRRFHDDGITFLRLLDAGLTI PSGKTIVHPLARQRRGLVKIQFL R*LLAKLTRQPLPLQPVTA RLCLPLIGDR*RHRQRSVAVALS VRHNPVHHILRKNKGDMSFPIT IGNNVWIESHVVINPGVTIGDNS VIGAGSIVTKDIPPVVAAAGVP CRVILEINDRDK
22616	52984	A	22744	742	1158	
22617	52985	A	22745	439	2882	PDWQAFQSPPEFASLIHPKPAK LPGWLQVQWSSLLAITRTPTPV RWAQQTETVGLVVGVDSDPF FGAMVKAVEQVAYHTGNFLLI GNGYHNEQKERQAEQLIRHRC AALV VHAKMIPDADLASLMKQ MPADKQCESIPDQNNQTGTQY PRGKEPKLLRRLMHMNRKVGP RGPRRMLLRYLDVEFLSVALA VVHLGPQGTCSRFLVARALV VAVSEMDKSLSAQAQYFASN GPVPDLAYQVDFPRLEIGL*F/E YVDTGAETTLVPGDVLYVPAG GWNFPQWQAPATTFSVLFGKQ QLGF/SAVVQWDGKQYQNLAK QHVARRGPRIGSFLLQTLNEMQ MQPQEQQTARLIVASLLNHCR DLLGSQIQTASRSQALFEAIRDY IDERYASALTRESVAQAFYISPN YLSHLFQKTGAIGFNNLSHTR LGHA*TLKGYDLKVKEVAHA CGFVDSNYFCRLFRKNTERSPS EYRRHRRLHDNRICQFKTPTDN PENPDRLYTLFRIDKETSSLPKK VAPSCKRLSVSRSSPKPSISIRRC MRLMLIEGRSSFIHPDKDVDG FHPYNVGRLCQRAPRLRPCTPR GIVTLLERYNIDTFLNNAVVIGA SNIVGRPMSMELLAGCTTTVT HRFTKNLRHHVENADLLIVAV GKPGFIPGDWIKEGAIVMMSGI NRGVATDASCFLVPFANRVSG
22618	52986	A	22746	2	126	
22619	52987	A	22747	1	465	
22620	52988	C	22748	78	308	



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22621	52989	A	22749	1	2797	MEHPPVLAVQRVALPSRSSEPE LFLNPPTDEETEAHRGMYLDQ GPRTKDWIPVAPGVREPSPLGP GPSSLWLLVVGTVVEEGSRKH RPTCKKDFTKSKTVDAQPTLCA RHQMLNIQFLISDRDPQCNLHC SRTQPKPICASDGRSYESMCEY QRAKCRDPTLGVVHRGRCKDA GQSKRLERAQALEQAKKPQE AVFVPECGEDGSFTQNTSCIHSS VYQIGENSSLTFLEKREESGHL QRDWFLWFRKARVI
22622	52990	A	22750	1	5295	MNLNQEEIPDLPEKEFRRLVIKL IREGLEKGAQCKEIQKMIQEV KREIFQIEISLKKKPPKIQTLDI LLKMQNALESLSDRTEQAEEIN SELEDKVFKLTQSNKDKEKILTR KYEQSLQEVWSYVKRPNLRIIG VPEEEENTKLENILGGIIEENFP SFARDLDIQIPEAQR TTGKLI AK RSLLRHIVFRLSKVKMERILR AVRQKHQATVSQKNKAGGITL PDFKLYYKATVSQKNKAGGITL PDFKLYYK
22623	52991	A	22751	1	891	GSPFEVMPRDDVFFIVDKI*DI GVYSCTAQNSAGSISANALTIV LETSPFLRPLLDRTVTKGETAV LQCIAGGSPPKLNLWTKDDSP VVTERRHFFAAGNQLLIIGDSDV SDAGKYTCEMSNTLGTERRGNV RLSVIPTPTCDSPOMTVL/HLLD DDGWGHGCLYVILA VVCCVVG TSLVWVVIIYHTRRRNEDCSITN TDETNLPA DIPSYLSSQGT LADR QDGYVSSSESGSHHQFVTSSGAG FFLPQHDSSGTCHIDNSSADVE AATDLFLCPFLGSTGPYVFEGK CVWAQNPF
22624	52992	A	22752	1	2947	MSAPSLRARAAGLGLLLCAVL GRAGRSDSGRGELGQPSGVA AERPCPTTCRCLGDLLDCSRKR LARLPEPLPSWVARLDLSHNL SFIKASSMSHLQSLREVAGNRIV EILPEHLKEFQSLETLDLSSNNIS ELQTAFFALQLKYLELNRNKIK NVDGLTFQGLGALKSLKMQRN GVTKLMGAFWGLSNMEILQL DHNNLTETKGWLYGLMLQE LHLSQNAINRISPD AWEFCQKL SELDLTFNHL SRLDD
22625	52993	A	22753	2	417	

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22626	52994	A	22754	1	262	VLDIGS/SLTVPDEFKQE/RADGMWWKQLVAGAVAGAVS/RTGTAPLDRLKVF MQIKRAILGQQETLMCRSASWLAPWLVPQPNHHLPGY
22627	52995	A	22755	1	762	
22628	52996	A	22756	1	1527	RLAAAGADPAGSRGGRGSREA PTEAARCRASPPPRAGAMRGSP GDAERRQRWGRLFEELDSNKD GRVDVHELRLQGLARLGGGNPD PGAQQGISSEGADPNPGLDLE EFSRYLQEREQRLLLMFHSLDR NQDGHIDVSEIQSFRLGISIL LEQAEKNFAQA/VDRDGTMTID WQEWDRDHFLHSLNVEDVLY FWKHSTVLDIGECLTVPDEFK QEKLTMWWKQLAAGAVAG AVSRTGTVPDLRLKVF MQVHA SKTNRLNILGGL*SMVLEGGIRS LWRNGINVLKIAPESAIKFMA YEQIKRAIPG/E*ETLPVLERFVA GSLAGATAQTIIYPMEVLKTRL TLRRTGQYKGLAGLRGGILER EGPRAFYRGYLPNVLGIIIPYAGI DLAVYETLKNWWLQQYSHDS ADPGILVLLACGTISSTCGQIAS YPLALVTRMQAQASIEGGPKL SMLGLLRHILSQEGMRGLYRGI APNFMKVIPAVSISYVVYENMK

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22629	52997	A	22757	1	2127	MDQSGLLALRAAVGAVVGSTL AVDIGLVKDWHPRLGGKHC QLLGAFRCRQHRRGKEERRGE TKEKKGERENERGKRRRIEGER DKYVKENEKQTCVQKERHSCT GNSPNHMATVQAERGALDSHG GWHPWDYCAVQGGRYHQLLL TKEEIEVQRSKKMCLLQAFLIC CQKSHFLGPGCTRSMVPASASG ESLKLPLMVEDEGEVPVTERER KREGERERGERERRRRRKRK RRRKRKRKRKRKRKRKR*EFLS LG*NERGKRRRIEGERDKYVKE NEKQTCVQKERHSCTGNSPNH MATVQAERGALDSHGGWHPW DYCAVQGGRYHQLLLTKEEIE VQRSKKMCLLQAFLICQKSHF LGPCTRSMVPASASGESLKL PLMVEDEGEVPVTEREQEGGGE RERERERKKEKEKEKEKEKEE EKEKEKEEERIVPLPRVELRLT NIAAKQVGNLTLDVAAPADHPS ESSCVYVRFVIKIPVAASFRRKK SYVTNNVESCEDGIHYFWKSH MHSENSCCKLPCPPHLPAAER LGDALPLPTMRRRQRCQNT GDCDGRRIQGTRETMHRDTS LVAVKTVQDTSREGMGEVEPN CFWRDTHMASGVGAFAELPH DGTCDCEPDEAPGAEEVCREC GFCYCRRHAEHRQKFLSHL AEYVHGSQAWTPPADGEGAGK
22630	52998	A	22758	348	881	WRQPRWPHHQAQLWQRAGSS YSQHKDPHFTSFSTPRAVQNF GFPCFFLRETTTLVLIPSVPLTDP GSFYRAWFSQCGPRSPRLGR TLSQKFLRLRGRPRPYMSTL TPF*STRIFERAFQVMGAESGG RIEKTTLCKRSLGPLMEPRV
22631	52999	A	22759	1	347	MVPASASGESLKLPLMVDER EPVTERE/REKGRGREGERERE KEREGERERERGERKGERER RRG*QPPFHNRFSQGRSFLCS RRPRVSRRGHTSRGPARKAAE RRGLG
22632	53000	A	22760	145	258	PENGLIGLS*KIVLSLNPVNEN DMKVDEVLYEDSSTA

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22633	53001	A	22761	1	1479	MALKEIFCPVRETETCTINCGTR ISPSILHVLGYPSTPNVPERE GCGGGVSGNSKQPGALETAEI GKKEGRREESRPESASSLSLLL SLAYDVKSAQICTRIHSSVPLE AVYPGYIHQSINQADLSALAPY DPCVCQIHKYHGAYNCLQYSV QNTLYSPTEQYKRCQAPWVL PAIFTIPASGAAASAVPVRAQA QGGQAAGQRRRLATAPLTGEG EPDHGDRTRAGSQGPEARPRIH LGAARGGDRTRGRPGRRGRDW TRLGREMAAAVSSAKRSLRG ELKQRLRAMSAEERLRQSRVLS QKVIAHSEYQKSKRISIFLSMQ DEIETEIIKDIQCRGKVCFPVP RFSRAITMDMVRIGSPGNGFFN FPKTSWEYSLRLGEGDVREEG LVPPGGL/EILILPCPQALGLDQ NHGQPRLLGRQGAYL*CLS*K RLFCSHSGKLPPTPPGGWLFK EQICPPRSPVNENDMKVDEVL
22634	53002	A	22762	1	813	
22635	53003	A	22763	1	368	
22636	53004	A	22764	327	4281	SASASRCDPGSGSRREEREELQ WRRRRRRRRRRRRRRRQQRRA AAPAAPAGGIEAVNMASASYHI SNLEKMTSSDKDFRFMATND LMTELQKDSIKLDDDSERKVV KMILKLLLEDKNGEVQNLAVKC LGPLVSKVKEYQVETIVDTLCT NMLSDKEQLRDISSIGLKTIVIGE LPPASSGSALAANVCKKITGRL TSAIAKQEDVSVQLEALDIMAD MLSRQGGLLVNFHPSILTCLLP QLTSPRLAVRKRTHA
22637	53005	A	22765	2	271	
22638	53006	A	22766	299	451	IVALFRSLVRHIRGTMAMESTA TAAVAALVSADKIEDAPAPST SADKVES

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22639	53007	A	22767	1	1122	MA TESTATAAIAAELVSANKIE DVPAPSTADKVERIENGVLGN TLDGVHVEEEGEKTEDESLVE NNDSIDEAEARKELREQVYDSM GEKEEAKKTEDKSFAPETDKE QDCEMEKGGRDMDISAEAEPP QEKVDLTGLGWLTEISGAKGG GAPEGPNEAEVTSKGPEQEVDP VEEEKSVSETDVQKECKEKG WEKHREVIIVSIEEKPKVSEEQP VVILEKQGTAVEVAEESLDPTV KPVVDVGGDEPEEK/GTVPGLR PSPCRDPLPAGLGLWVQLSV** GSGTVQQIY*SH*EENGCTKRA GEGG*RIVC*IQERN*GTGTAT RNYRKDRCKGVSDYWECS*T GSESYSGGELVYFRFHS*WRRLF
22640	53008	A	22768	223	339	
22641	53009	B	22769	341	496	
22642	53010	A	22770	12	1099	VSGVPNCLFFSQALFRSLVRHL RGTMAESTATAAVALVSA DKIEDVPAPSTADKVESLDV DSEAKKLLGLGQKHLV/MGDIP AAVNAFQEAASLLGKKYGETA NECGEAFFFYG/KSLELARM NGVLGNALGVHVEEEGEKT EDESLENNDNI/D*N*RLGRG* *RK**D*RNAK*FSP*KQVSSRK *GGGDWEPRACLGAGFSKDH F*KARNKRSTALCCPGTS*TRRS *C*I*KLCASC/GGVPLP*PTGP VPGSPRPSPCRDPLPAGLGLWV QLSV**GSGTVQQIY*SH*EQNG CTKRAGEGG*RIVC*IQERN*GT KGTATRN*REDRRCKGVSA*W ECS*TGSESYS

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22643	53011	A	22771	11	2485	VSGVPNCLFFSQALFRSLVRHL RGTMAVESTATAVAADVVS ADKIEDVPAPSTSADKVESLDV DSEAKLLGLGQKHLVMGGIP AAV\NAFQGAASLLGKKYGET ANE\CGEAFFYG\KSLLLEARM ENGVLGNALGVHVEEEGEEK TEDESLENNDNIDEEAREELR EQVYDAMGEKEEAKKTEDKSL AKPETDKQDSEMEKGGREDM DISKSAAEPQEKVDLTLDWLTE TSEEAAGGAAPGPNAAEVTSG KPGQ\EVPDAAEEKSVSGTDVQ EECREKGGQEKQGEVIVSIEEK PKEVSEEQPVVTLKQGTAVEV EAESLDPTVKPVDVGGDEPEEK VVTSENEAGKAVLEQLVGQEV PPAESPEVQTEAAEASAVEAG SEVSEKPGQEAAPVLKPDGAVN GPSVVGDTPIEPQTSIERLTET KDGSGLEEKVRAKLVPSQEETK LSVEESEAAGDGVDTKVAQGA TEKSPEDKVQIAANEETQEREE QMKEGEETEGSEEDDKENDKT EEMPNDSVLENKSLQENEEEEE GNLELAWDMLDLAKIIFKRQET KEAQLYAAQAHLKLGEVSVES ENYVQAVEEFQSCNLQEQYL EAHDRLLAETHYQLGLAYGYN SQYDEAVAQFSKSIEVIENRMA VLNEQVKEAEGSSAEYKKEIEE LKELLPEIREKIENAKE\SR\SG
22644	53012	A	22772	52	161	FQNPGLY/CDTEYNRLQKQK TEKTKQKKTQFHPICN
22645	53013	A	22773	3	115	FFQNPGLY/CDTEYNRLQKQK TEKTKQKKTQFHPICN
22646	53014	A	22774	229	358	
22647	53015	A	22775	257	386	
22648	53016	A	22776	259	294	
22649	53017	A	22777	217	398	KAWWNLLRKSEPKSCGS*GGL STSRLVECSSPLGLGYCG* <sup>*</sup> L CHLQEPHYGSLHRMSS
22650	53018	A	22778	1	3386	

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22651	53019	A	22779	391	2100	SRRTAGVRLDILCKDPIMWVSA DGHSYQPQYPKAKRATEFHFF NFKALLARAAVGAARGIHHRC GLTKRPDARRRRVAGA QGREP AISLPGDRAAGARATRTRGPGP APKMPAIAVLAaaaaa/WCFL QVESRHLDALAGGAGPNHG/NF U/DNDQ/WLSTVSQYDRDKY/W NRRFDEVEDDYFRNW/NPNKPF DQAL/DPSKDPCLKVKCSPHKV CVTQ/DYQTAL/CSVRKHLPR QKEWGTWAQKHWWGLDL*ILV KICKPCSRGRSSAMGLAGSDGP LLTAFQVANLEFHACSTGQK/S FATLCDG/PCPCSSQSLEPPKHK GRKGVPCTDKELRNLASRLKD WFGALHEDANRVIKPTSSNTAQ GRFDTSLPICKDSLGMFNKL DMNYDLLLDPSEINAIYLDKYE PCIKPLFNSCDSFKDGKPLNNE WCLLPSONPGGLP/CAQNEMNR IQ/KLSKGKSLLAGFIPRNEEG YYKATQCHGSTGQCWCVDKY GNELAGSRKQGA VSCEEEQETS GDFGSGGSVLLDDLEYERELG PKDKEGKLRVHTRAVTEDDED EDDDKEDVGYIW
22652	53020	A	22780	2	441	HGVQGAGCGEVAAVSIELGAG GPVWRAAPRACSRLQLLRGFG LEGQWFGESCRRGAS*EGSTR *PPRRQPWPEWVMSWVPPET REPARISPAPAKQN*PPAPKSP AAPA/PQAAVAATPSPPGEISEA WDSLESFSKPAFFSQ
22653	53021	A	22781	3	121	

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22654	53022	A	22782	2	1488	FVNNMADGEEPEFKRRRIEELL AEKMAVDGGCGDTEWTKDR WNHVKK/FLERSGPFTHPDFEP STESLQFLLDTC/VLVIGAGG LGCELLKNLALS/GFRQIHVID MDTIDVSNS*IRQFLFRPKDIGR PKAEVAAEFNDRV/PNCINVV PHFANKIQDFN/DTFYRQFHIV CGTGTLSCARRWINGMLISLNLN YERMVS*DPSSIVPLIDGGTEGF KENARVILPGMTACIECTLEL YPPQVNFPMCTIASMPRLPEHCI EYVGMQLQWPKEQPFGEGLVPL DGDDP/HEHIQWIFKSLERASQY NIRGVTYRLTQGVVKRIIPAVA STNAVIAAVCAT*/EVFKIATSA YIPL*ITWVFNDV/DGLYTYTTE GRKGK/ENCPACISQLPQNISVF LHQAKLQ/EVLGIILTNASLQN EILPAITATLGGEKIGTLYLQSV TSNEERNRANFFQTIERNWGLL DGPKTGRLLDVTTPTQTVLFQTS ILLKKGKSPT
22655	53023	A	22783	1	1719	
22656	53024	B	22784	199	460	
22657	53025	A	22785	226	1620	NGSGLALATGNRDPGLCPLSAP SCPWR*KSAGASTQQAYSQSQ /HPAYHRITPTLTNFALRLYKEL AADAPGNIFFSPVIS/TLCLLC LGAQANNALILEGLGFNL TET PEADIHQGFRLSLHLLVLPSPKL ELKVGNSLFLDKRLKPRQHYFD SIKELYRAFAFAHFTDSVTTGR QINDYL*RRTYWPGVDLPFRS/L ARDTFMVLN/NFILFSKAKVKA TLSSRVDPKSRPVFLVDERTSF QVPMMHQKEMHRLYDQDLA CTVLQIEYRGNALALLVLPDGP KMKQVEAALQPQTLRKWGQL LLPSLLDLHLPRFSISGTYNLEDI LSPNWFSPITYLNKJITLSQSVG G*LNKSISKVSHKSMVDMNEK GDQRPGLLQASSPSPHL*/YTMS DPHAHFNRPFLLLLWEVTTQSL LFLGKVVNPPVVWVTMVGQGE LSYLILDQTRPEPACILGLLCG
22658	53026	A	22786	64	288	
22659	53027	A	22787	1	1923	



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22660	53028	A	22788	309	2286	CAVCHISFQDTPVLVSSNVTMQ FGSKPLFENISVKFGGNGRYGL IGANGSGKSTFMKILGGDLEPT LGNGSLDPNER\IGKLRQ\QDFA FEFTVLDTVIMGHKEL\WKVK QERDRIYALPEMSEEDGYKVA DLEVYKYGEMAGYSAEARAGEL LLGVGIPVEQHYGPMSEVAPG WKLRLVLLAQLFADPDILLDE PTNNLDIDTIRWLEQVLNENNS TMIHSHDRHFLNMVCTHMA LDYGLRVYPGNYDEYMTAAT QARERLLADNAKKKAQIAELQ SFIDKIKLEEKASSRQNPFIREF QDKKLFRNALEVEGLTKGFDN GPLFKNLNLLEVEGEKLAVLGT NGVGKSTL\KLT\VGNLQPD TVKWSENARIGYYAQDHEYEF ENDLPVFEWMSQCKQ*GDDEQ AVRSIFGRLLFSQDVIKKPAKVL SAPFCKDSILEAIDAGIKLIITTE GIPTLDMLTVKVLDEAGVRMI GPNCPGVITPGECKIGIQPGHIH KPGTGELNITTGIVKARDTQIA LNDKSKGDVRVDQNSLLET NMYVGTSGTGTLTLTNGTLN VEGGEVYLVGFEPVGTNLNIGA AHGEAAADAGFITNATKVEFG LGEGVFVFNHTNNSDAGYQVD MLITGDDKDGKVIHDARHTVF
22661	53029	A	22789	1	553	
22662	53030	A	22790	1633	2207	ILFFDKGMPAQTPSLQKRWEK M*LVLW*GDREGIKAI/SEESW GARAPIFLLR/MMEDQGLYSIR MGGARGLPKSLAL*GAGRGP YSGERTWTLSLPSGNCAPVQR GGWWYHACA\HSNLNGVWHH GGHYRSRYQDGVYWAEFRGG AYSRLKAAMPHLAPEAVTLCSP GPLGPRGHWSAGAPSCSGHTFF
22663	53031	A	22791	34	210	AAADPLRLHRRGAFIKAGRHA G/PSLPVCLQATAH*MDLARLA LVLVVRTSASTKSSTRE

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22664	53032	A	22792	397	1168	LLSRISKVSSKLPVRGGAGSLCT GDQRKVRKFLVETVELQISLKN YDPQEQQSFAFGHPSRL*VVPSP PLSSLVCLVGGPSKHL*RRLRP VGYPPTMDIEGA*KKLNQELKN LVKKAGPRKYDCVFWPQESLD SSKIPPNPSGPGFK*RAKGVPFP CLTHNGKHGLAQSGIEVEVPT/ LSFQMKKG VYVWVA VAVWSRE R*QTNELVYNIHLACQLSWVSL LKEKNWQ\NVPGYIKSTMGO SPSSHILRHIRINSITS
22665	53033	A	22793	1	377	SVSRVPTRSLRTSTWRLAQDQT QDTQLITVDEKLDITLTGVPEE HIKTRKVRJFVPARNNMQSGVN NTKKWKMEFDTREWRWENPLM GWASTWSYDIEERKVPKPKSK SYGANFSWNKRTRVSTK
22666	53034	A	22794	183	368	
22667	53035	A	22795	3	623	ILAFACSKMAAVMSVVLRTQ LWRRRAVAVAAALSVSRVPT/R RSLRTSTWRLAHVDTQDTQLI TS*KIGISLTFNWPFPPEHIKNL EKSQIFVPCSPITCQSGVNNTK\ KWKIMEFDTREWRWENPLMG\ WASTGLIPLSNMVLNLPLVKE DAVSFAEK\NGWELWTLERK\ VPKPKSQVFMGANFSWNKRTR VSTKIGLALTSPA
22668	53036	A	22796	1	798	MNKVNPTQDQKEDHPELIITSIG DKRQLTLEAASGVCHRGQTQR VKEESKKFLISMFRGGKPVHK VVERACVCTCLHHTSVPAATHN TQRRHTTPTTRKNRGRKRGKK EREKRRKDREHNTGRRTKRKKT RNIGGRTQKQKQKQSEDKARR EPGGGRKQGRGREDGTRQRRG GRTRNREEGAQRGRNGR/RGEG RRTEETHMA*APDITATQQT QGGHGTQRDITLRRHTAEDA QPSEHASADQAHTKKTE*SVSR TNGQYLLT
22669	53037	B	22797	85	322	

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22670	53038	A	22798	165	4733	AATALLTHGQEEGQVEGQDED IPPITCVQNGRLRYHDRVWKPE PCRICVCNKGVLCDDEVICDET KNCPGAEVPEGECCPVCPCDGS VTHRPKKPPGVGEPKGDTPPPR PKGTGPPPPGRDGPQGPGPLPGP PGPPGPPGPPGLGGKLLPKLSY GYDEKSTGGISVPGPMGSPGPR GLPGPPGAPVSIQDVIFCLGLW SFGGKTGMRAGEMLRDGLGPQ GFQGGPGEPPGASGPMGPRG PPGPPKNGDDG
22671	53039	C	22799	88	392	
22672	53040	A	22800	37	293	
22673	53041	A	22801	55	1917	GGGGVRRRRGTRRSEPGDSRSA MAPIGLKAVVGEKIMHVDVKK VKKKGWVKLVVDQLSMRML SSCKMTDIMTEGTTIVEDINKR REPLPSLEAVYLITPSEKSVHSLI SDFKDPPTAKYRAAHVFTDSC PDALFNELVKSRAAKVIKTLTEI NIALFPYESQVSLDSADSFQSF YSPHKAQMKNPILERLAEQIAT LCATLKEYPAVRYRGEYKDN ALLAQLIQDKLDAYKADDPIM GEGPDKARSQLLILDRGDPSSP VLP* *LFQGMSY*SCLP ENDV YKYETSGIGGGHGVKGGASGT EDDDLWIALRHKHIAEVSQE VTRSLKDFSSSKRMNTGEKTT MRDLSQMLKKMPQYQKELSK YSTHLHLAEDCMKHYQGTVDK LCRVEQDLAMGTDAEGEKIKD PMRAIVPILLDANVSTYDKIRJIL LYIFLKNIGITEENLNKLIQHAQI PPEDSEHTNMAHLGVPIVTDST LRRRSKPERKERISEQTYQLSR WTPIIKDIMEDTIEDKLDNKH PYISTRSSASFSTTAVSARYGH WP*GTRPPGEYRSGP/RVFIIFHP LGGVSLNEMRCALRR*PRANG KWGGA**GSTHILQPHRNLPGH

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22674	53042	A	22802	46	1931	GGGGVRMLCGTRRSEPGDSRS AMAPIGLIAVVGEKIMHDMIL NDLNMGEWKALLVDQLSMRM LSYCCLMTDIMTEGIVEDINK RR*PLPSLEAVYLITPSEKSVHS LISDFKDPPTAKYRAAHVFETD SCPDALFNELVKSRAAKVIKTL TEINIAFLPYESRVYSLDSADSF QSFYSPHKAQMKNPILERLAEQ IATLCATLKEYPAVRYRGEYKD NALLAQLIQDKLDAYKADDP MGEKDPKARSQLLILDRGFDP SPVLHELTFQAMSYDLLPIEND VYKYETSGIGEARVKEVLLDED DDLWIALRHKHIAEVSQEVTRS LKDFSSSKRMNTGEKTTMRDL SQMLKKMPQYQKELSKYSTHL APCLRTCMKHYYQGTVDKL/CR V/EQDLAMG/TDAEGEIK/KDP MRAIVPILLDANVQTY*QIRIILL YIFLKNKGITEENLNKLIQHAQIP PEDSEIITNMAHLGVPIVTDSTL RRRSKPERKERISEQTYQLSRW TPIIKDIMEDTIEDKLDTKHYPI STRSSASFSTTAVSARYGHWHK NKAPGEYRSGPRLIIFILGGVSL NEMRCA YEVQTANGKWEVLIG STHILTPTKFLMDLRHPDFRESS RVSFEDQAPTME
22675	53043	A	22803	2	51	
22676	53044	A	22804	236	451	LHLPLFLGAIRSGQYGLWNLF VLGWTCSLGIYLGWRVS*NFG RGTKALKVLSTIS/E*RHHCHP *NNIFVY

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22677	53045	A	22805	3	1173	GAGAPAAGQAGLTSTSAVRAR PVSPARQSDPAASLSLHLSLPP APGAGCARWRRRGPPQAA GAGAGSAPRWLRALSEPLSAA QLRRLEEHRYSAAAGVSLLEPPL QLYWTWLLQWIPLWMA NSITLLGLAVNVVTTLVLSYCLTAT EEAPYWTYLLCALGLFIYQPLD AIDGKQARRTNSCSPLGELFDH GCDSLSTVFMAVGASIAARLGT YPDWFSSRYLGLCLVFYCAH WQTYVSGMLRFQKVDVTEIQI ALVIVFVLSAFGIGATM/WGD YTIPILEIKLKILPVLGFLGGVIFS CSNYSHVILHGGVGKNGISTIA GTSVLSPGTPH/MGLIILAIMIY *KVRQLMVF*KSIPCL*YPQCLG CVFAKVVSQKISGSSHDQK
22678	53046	A	22806	2	1091	CPGRRRRRRPGRSRARATALPT PGPRKRGGPAGRKRRPERC SSSGSSSSGDEGLDGLD GAPGRGKRAAQPVAAAGKVG GA AVVVAEPEHTKKHV KLETLITTEGLWSWGRNE KAQLGHGDTKRV EAPRLTEGLSHEVIVCTCARNH TLALTETGSVFAFGENKMG QLGLGN*TDVPSPVQIMYNS LPITKMA/CGYGLGYTEQK DEMVPRLVKLFDFFPGHGA SQIYAGYTCFSAVSEVGG LFFWGATNTSHESTMYPKA VQDLCWRIWSLACGKSSII VADESTISWGSPSPTFG ELGYRDHKKSSSTAQAEV KTLHGIFSEPVAMGYSHSL VIARDESETEKEIKKLPEY SPQTL

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22679	53047	A	22807	1	1409	MSLGLASERLWAGLGLPALPL ADEGGEGCETLFVWRSQKLEFG SKCKGQLLIFGATNWDLIGRKE VPKQQAAYRNLGQNLWGPHR YGCAGVVRVTVVSGSCAAHS LLITTEGKLWSWGRNEKGQLG HGDTRKVEAPRLIEGLSHEVIVS AACGRNHTLALTETGSVFAFGE NKMGGQLGLGNQTDVAFSPAQI MYNGQPITKMACGAEFMSMIMG LQKRLPLFWGALNMGQLGTQL RMGKFHSPGAQRIEYDCELVPR RVAIFIEKTKDGGQILPVPNVVVR DVACGANHTLVLDQSKRVFSW GFGGYGRLGHAEQKDEMVPRL VKLDFDFPGRGASQ/SCWL/HTC SLCCQ*NGWSVFLGGHQLP*I YHVPQKQCRSTAAAGESGTLAC GKSSIIVADESTISWGPSPITFG ELGYGDHKKPSSAAQEVKTL DGIFSEQVAMGYSHSLVIARDE SETEKEKIKKLPENRPTL
22680	53048	C	22808	277	518	
22681	53049	A	22809	2	192	
22682	53050	A	22810	1	2946	MAEAGLRGWLLWALLRLAQ SEPYTTIHQPGYCAFYDECGKN PELSGSLMTLSNVSCLSNTPAR KITGDHLLILQKICPRLYTGPNT QACCSAKQLVSLASLSITKAL LTRCPACSDNFVNLHCHNTCSP NQSLFINVTRVAQLGAGQLPAV VAYEAFYQHSFAEQSYDSCSRV RVPAATLAVGTMCGVYGSA CNAQRWLNFGQDGTGNGLAPLD ITFHLLPEGQAVGSGIQPLNEGV ARCNESQGGDDVATCS
22683	53051	A	22811	258	362	
22684	53052	A	22812	1	4038	MAEAGLRGWLLWALLRLAQ SEPYTTIHQPGYCAFYDECGKN PELSGSLMTLSNVSCLSNTPAR KITGDHLLILQKICPRLYTGPNT QACCSAKQLVSLASLSITKAL LTRCPACSDNFVNLHCHNTCSP NQSLFINVTRVAQLGAGQLPAV VAYEAFYQHSFAEQSYDSCSRV RVPAATLAVGTMCGVYGSA CNAQRWLNFGQDGTGNGLAPLD ITFHLLPEGQAVGSGIQPLNEGV ARCNESQGGDDVATCS

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22685	53053	A	22813	198	380	ASSESDSTPCR*MAYSWPPNSN SSHCIKELPLFMGKIPAA* DGG PQGLAIFPPGVIVGI
22686	53054	A	22814	1	154	
22687	53055	A	22815	35	486	PARRGRDEC*VLAPFRATRPPS RRIR*SKATYPIPSNDQTRTI SRERASMPRSAEPKRPTIPRLHP SPRGIVTVSS/RPRSHALPVSHIH SCHSRITAISDNQVPAFLQVYGE EVRKRAGEVTQAITGFPRYRLF FKMLRCHRSIQVTAST
22688	53056	A	22816	212	365	RCRSGPAPRSAPGARPASPSPPA AGTCR*RPAGHCAGAAAGLLSL CPRCST
22689	53057	A	22817	293	618	QQNPTNCLPPASR*SKT*RARST AGPTRPHLHHPAAPAGSPACA GEGRLQR/HSPNPI.YFNWKKQR FAAKPHFRPQSSLNPQQWLLA GLLQEESSSLGTDAPLHSLG
22690	53058	A	22818	3	1129	FCLDDLSSAINEHLSARGRRRS IVKVS LHPA VIGLKSFLKKPD QLRKLFIAGLSFETDESLSHF EQWGTLDTCVVMRDPNTKRS RGVGFVTVATVEEVDAAMNA RPHKVDIGRVVIEPKRAVSREDS QRPGA/HLTVKKIFVGGIKEDT EEHHLRDYFEEIILNSMGKLEV VEIH*LDRIQGWPRKRGAFTV FDGHDSVDKIVIQKYHTVNG/H NCEVRKALSKQEMASASS/SQR G/RVGSGNFWCGRT/NGFGGND NFGIRGGNFSWSVAVFGG/SRG GVWIVWAVGDGYNGFG/NDGS HFG/GGGSY/NDFGDFH/NQSSK FWTP*RGGNLGGQKLWPPMGG GGQYFAKPTPKVAYGRFPAA ASSYGKWPEDFN
22691	53059	A	22819	1	568	MGKMSPGHVRDFHSGSCHHNR GGPGGKSGFMGQALGPG/GCV QPRDLVLCVSATPMAERGQC GAQAVASEGGSPRPWQLPCGV EPADFRRYMETPGCPGRNL/PA GAGPL*RTSAGAVWKGNVRS SP/PQSLYWGATASGAVRRGPPSS RNQNGRSTDSLHCMPGKDTQ/P NP*KQPGGRLHPAKPQGRSCP
22692	53060	A	22820	232	389	

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22693	53061	A	22821	3	401	VGVCEKRGAPGPPAPGPARG PVAAAAPP/GPGASRAR* DAA AAAGGRGPPGQ* T*KAWGLHP GTGSL/RGHPAPM* PLLRAPFRS PLHPLPPHPLPRRAA/SNPGTS KCRTAAGTRQWGGRQS QLQR QCLR
22694	53062	A	22822	1	410	MGKMSPGHVRDFHGRPSHHRP RGPGGKSGFVGKVQGP HAVCS LGTWCLVSQPLHP/G* KGP MYS SGVASEGGSPKPWLPRG VEP MGAQKSRTEVWEPLPRFQKIY GNTWMPRI PMCCARDPGGAKG GCSNPSQRR
22695	53063	A	22823	264	979	GPRHADPANFSARNLSRP* DAP GRVQDPRPQAPQLPPGLGAPSR VRRPPRRPVDRTLPGGPRPPA AAA/GPTGGRGS/PRAGGTAA A TGPRAGPGARGAAGSAPFLTDP NM/GRPPPPATTTPPGAATAPGP REEAPGKFRVSPGPGSAGGPP TRASPTPTAAGGGGGDSEGEPP ILLVADAG/PDSARSPPLPGCV LSAAPRSRRDPDAVGGLAASA AARLNTTWKLPQLGASTL
22696	53064	A	22824	271	426	
22697	53065	A	22825	546	1296	KMVDCLANSEANTRRISIVENC FGAAGQPLTIPGRVLIGEGVLT KL/CRKKPKARQFFLRNDIVV* GNIVIQQKKYIKQHIIPLNV TID SIKDEGDLRNGWVIKTPTKSFA VYAATATEKSEWMNHINKCVT DLLSKSGKTSPNEHA AVVPD SEATVCMRCQAKFTPVNRRH HCRKCGFVVCGPCSEKRFLLPS QSSKPVRI CDFCYDLLSAGDMA TCQPARSDSYSQSLKSP LNDMS DDDDDDMDQ
22698	53066	A	22826	1219	2370	
22699	53067	A	22827	164	601	DRTNIMVGYHQTNQKTDGKT PTRRPVLVDHNRLPEGSRGRL AVAVAGDHPAAVQVTMTLVN DTGFDPVFSGSIAESWGQHS GT PSYC*DWEAATMLRAFLAKK GETKDLRQFPNIDNAYMELGT NRADAVLHDTPNILYFMQF
22700	53068	A	22828	2	91	



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22701	53069	A	22829	1	1188	MGAEPSSLTSLGTLWSGERFQC MRAKIWERSRKGRFFSTDVISP TKDSFAGPFQPIDTLVQHQRIV GLKVCVLPDPCKIRILKPNPQC VGKWEVEVAENIEIQVFGGERF DINKYSKSPPPPTPQPLYLTAGF ASCRNHRKSEELREGKGESPGK SKPFHLQANFTVALVTTLQGDK HSQEAIRPVAKAKTTCTYLSN VCEMKDFKRINCPDPFHKMAP KAKKEA\PAAPKAEAKAGFK GPRRQVLK\GVHNHKKRKRKK ERSRTFTHLSRRPGRPLR\RRQP KYPSGRAAPRRNKLD\HYAIHK FPLT\TESA\MKKIEDNNTL\VFV VELLKATTKNQIKQGC*RSLYD IDVGQGSTPWISAWMGEKKGI CSDQLAPDLPIAFGMFANKIWGFI
22702	53070	A	22830	1413	2197	RVEWRWYNVLPCLDVHSGPVD RRSHVMTAAEKPPFCPAWQQA VSQQSCALEPRTGEEGGKGIQG PASGLFPTGEEISVVPNRWLDA SLSPVILGVQG\GSQCLSCGVQG EPTLTLEVRIGASSLGTQPMQL SLLKPGSPQPWCCGTP*QDSVD GSFASSLRILAKALLCGPGFCPS LTLPSFCRKPVTIME\LYLGAK SKSFTFYRRDMG\LTSSFESAA YPGWFLCTEPEADQPVRLTQL PENGWWNAPITDFYFQ\CD
22703	53071	A	22831	100	177	KRDHF*SRLQQVSRVRSWSSA TDSR
22704	53072	A	22832	610	1080	
22705	53073	A	22833	1169	1308	

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22706	53074	A	22834	1	1889	ACRRRAGTWTPRPRGSGSRA MAGNCGARGALSAHTLLFDLP PALIGELCAVLDSCDGALGWR GLAERLSSSWLDVRHIEKYVDQ GKSGTRELLWSWAQKNKTIGD LLQVLQEMGHRAIHLITNYGA VLSPEKSYQEGGFNLFKETA NVTVDNVLIPHEHNEKGVLKSS ISFQNIIEGTRNFHKDFLIGERG E/IFGGYQEGKIQTLYAVKLFK QEKMKQCKKHWRFLSELEVL LLFHHPNILELAAYFTETEKFC LIYPYMRNGTLFDRLQCVGDT APLPWHIRIGILIGISKTHYLHN VQPCSVICGSSANILLDDQFH PKLTDFSMAHFRSPLEHQSCCI NMPSSSRKHLWY\MPPEYIRQ GKLSIKTDVYSFGIVIMEVLTGC RVVLDLDPKHIQLRDLRELMEK RGLDSCLSFLDKKVPPCPRNFS AKLFCLAGRCAATRAKL RPSM DEV*RALESTQASLYFAGDPP TSLKALRGP\SPFLFEKVT\SIPV VEDDEKPNNNLLPS**KALRMK RWPQK\TPFECSP\EVWFLSLE QKAREARENEEACNMPSS\CE ESWFPKY\IVPSQDLRPL*GK*K ILSSQA\SGHSC\RTKPVSSSCSS KFSWDEYEQYKKE

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
22707	53075	A	22835	1	1560	RWERGGKRFRAADPMSALRRS GYGSPDGSYGRYYGPGGDDV PVHPPPLYPPLRPEPPQPPISWR VRGGGPAETTLWLGEGGGDG YYPSGGAWPEPRAGGSHQEQ PPYPSYNSNYWNSTARAPYP STYPVRPELQGGSLNSYTNGA YGPTYPPGPANTASYSGAYY APGYTQTSYSTEVPTYSRSGN SPTPVSRGIYPQDCQTEAPPLR GQVPGYPPSQNPGMTLPHYPY GDGNSVQPQSGPTVRPQEDAW ASPGAYGMGGRYPWPSSAPSA PPGNLYMTESTSPWPSSGSPQSP PSPPVQPKDSSYPYSQSDQSM NRHNF/CASVHQYESLGDQ*T MDDSRILLDSPSPSIVPEPSACM GNAHPVTHPNNQDQSSSLPEE CVPSDESTPPSIKKIHHVLEK VQ YLEQVEVEEFVGKKTDKAYWLL EEMLTKELELDSVETGGQDSV RQARKEAVCKIQAILEKLEKKR IMKGFTIKWKPVNTLTKEHLIW LITLFLKCLMLTRSNTFQLFL
22708	53076	A	22836	8	207	TPVPRALRSPAGLEGSHLSSIST MMPAVMSVGKVTENGSGSPQGI KSPSKPPGPNRIG*RNQVSVHT
22709	53077	A	22837	459	5520	RQVRPAGLESDLSINTMMMSA VMSVGKVTENGSGSPQGIKSPSK PPGPNRIGRRNQETKEEKSSYN CPLCEKICTTOHQLTMHROHN TDTGGADHSCSCIGKSLSSASSL DRHMLVHSGERPYPKCTVCGQS FTTNGNMHRHMKIHEKDPTSA TATAPGRGDFASAKSSKRKLSH DAESEREDPAPAKKMVEDGQS GDLEKKADEVFHCPVCFKEFV CKYGLETHMETHSDNPLRCDIC CVTFTRHTRGLLRHNL
22710	53078	A	22838	164	434	
22711	53079	A	22839	23	242	
22712	53080	A	22840	187	325	
22713	53081	A	22841	1	130	NCPMCWPGQSPRVPT*GRRNP PPKRRSVSAES*RHWPQSPSP
22714	53082	A	22842	614	774	QEPMRMCTMLANSSPSSQATP PGL*SWNQPSLPARTLSRHEWT SCLGSSANL
22715	53083	A	22843	396	560	LFPHDGIKHKKENP/PKGP PPP THPQTTPPRPADAPLVATKSTLD QAWALLAVATS
22716	53084	B	22844	124	205	

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22717	53085	A	22845	I	2355	MVGSRRISGVIPLPFTTRRAGIFS DPRANMQPLWAPVPPATFVPTS LPPVPTARPPTSASCHCQQVPC AGLEVALPGNRTICWLSLWPS WQLDEDAQSPALESSEIRQFPT APRSGYPGTLCPSFLGPRPRTC EYHSKPVLCA PSSRASPSA TTL STRTLWGPAGSHPGVHINTR LSPDLCPGKIVLRALKESGAGM PEQHKDPRVQENPDDQRTVPE VTGDARSAFWPLRDNGGSPFV PRPGPLQTDLHAQSSEIRYNHTS QTSWTSSTKRNAISSSYSSSTGG LPLGKQRRGPASSRCQLTLSYS KTVSEDRPQAVSLGHTRCEKG ADTAPGQTIAPTASRP HINTSLH VEDKAISDCRPSRPSHTLSSLAT GASGGPPVSKAPTMDAQQDRP KSQDCLGLVAPLASAAEVPAT APVSGKKHRPPGPLFSSDPLPA NSSHSRDSAQVTSMPAPFTAA SRDAGMRRTSRAPAAAAAAPP PSTLNPTSGSLLNEWMEAPHIS WPQQLQHVPGRQ/NVRYNQR SQTSRTRS/CPQTKCQLQLPQLY GRPPGSKAEEG/PASSHCQLALS SSNTVSEDGPQA VSSGHRCEK AGTAPGQTLAPRGGS PRSQASR PHINTALHVEDKAISDCRPSRPS HTLSSLATGASGGPPVSKAPTM DAQQDRPKSQDSLGLLAPLASA AEVPSTAPVSGKKHRPPGPLFSS
22718	53086	A	22846	I	1200	MPEQDKDPRVQENPDDQRRVP EVTGDARSAFRPLRDNGGLS/PP FVPGPGLQTDLHTQR/LGYRV TVEDLDREKAAAFQRINSALQV EDKAISDCRLSRPSHTLSSLATG TSGLPVSKAPSMDAQQERHK SQDCLGLLAPLASAAEVPSTAP MSGKKHRPPGPLFSSDPLPAT SHSQDSAQVTS LIPAFFPAA SM DAGMRRTSPGTSAPAAAAAAPP STLNPTLGSLLIEWIEALHISGPQ PQLQQVPRGQNRQSQTSTRSSC PKRK/CHLQLQLYGRPPGTKA EEG/PASSHCQLTSSSNTVSED GPQA VSSGHTHCEKTADTAPG QTLAPRGGFPRSQASRPCRHKF PLLPRRRGEPLMLPPPELGYR VTAEDLDREKEVAFQRIKSALQ VEDKAI

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence ( X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
22719	53087	A	22847	2	1762	YHSKPVLCAPSSRASPSASATTLSTRTLWGPGAGSHPFVGHNTRLSPDLCPGKIVLRALKESGAGMPEQHKDPRVQENPDDQRTVPEVTGDARSAFWPLRDNGGPPSFVVRPGPLQTDLHAQSSEIRYNHTSQTSWTSSTKRNAISSSYSTGGLPGLKQRRGPASSRCQLTLSYSKTVSEDRPQAVSLGHTRCEKGADTAPGQTIAPTASRPHTSLHVEDKAISDCRPSRPSHTLSSLATGASGGPPVSKAPTMDAQQDRPKSQDCLGLVAPLASAAEVPATAPVSGKKHRPPGPLFSSSDPLPANSSHRSDAQVTSMIPAPFTAA SRDAGMRRTSAPAAAAAAPP PSTLNPTSGSLNEWMEAPHISWPQPQLQHVPRGQ/NVRYNQRSQTSRTRS/CPQTKCQLQLPQLYGRPPGSKAEEG/PASSHCQLALS SSNTVSEDPQAVSSGHRCEKAGTAPGQTLAPRGGSPPRSQSRPHINTALHVEDKAISDCRPSRPSHTLSSLATGASGGPPVSKAPTMDAQQDRPKSQDSLGLLAPLASAEVPSTAPVSGKKHRPPGPLFSSSDPLPATSYHSRDTAQ

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22720	53088	A	22848	292	2053	GSVAWSFPSPSSSLCLWDLPV APTLWGPAGSHPFVHNTRL SPDLCPGKIVLRALKESGAGMP EQDKDLRVQENPDDQRRVPEV TGDARSA/FLAPAGQWSPLSLC AQSRASADIPPCPEVRNQI*PDIP DHLDELHQPKCHLQLLQLCG RLAGAKVEEGASGAKEQGRDA *AGQGTPEQQNPDDQRTVPEV TGDARSTVRPLRDSGGLSPFVP RPGPLQTLHAQSSEIRYNQTS QTSWTSSSTKRNAISSSYSTGG LLGLKQRRGPASSRCQLTLSYS KTVSEDRPQAVSSGHTRCEKA ADTAPGQTLAPRGGSPPRSQGS PRRRKIALLPHR*GELQVEDKAI LDCRPSWPSHTLSSLATGASGE PPVSKAPTMDAQDRPKSQDC LGLVAPLASAAEIPSTAPVSGK KHRPPGPLFSSSDPLPATSSHSR DSAQVTSLLIPAAFTAASMDVG MRRTRPGTSAPAAAAAAPPST LNPTSGSLN/EWMEALHISGPQ PQLQQVPRGQ/NVRYNQRSQTS RTRS/CPQTKCQLELPQLYGRPP GTKGCRHEKNVLC SKLFEGFGF IFVGFFFFAYMGILQLLI

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22721	53089	A	22849	146	1789	RQPSTSGSSRSCPCARRSWWAR TARSGWWWELLGARRSPQTLH CPQATLITLPCRPSTSTSGSAM T*RGPWRSFGCTTSFCPTSR/PV ERNIDQTDLHAQRSEIRYNQTS QISWTSSCTNRNAISSYSSTGG LPGLKRRRGPASSHCQLTLSSS KTVNSDKFDANDPILKDQTQE WSGSATFTSDGKIRLFYTDYSG KHYGKQSLTTAQVNVSKSDDT LKINGVEDHKTFIDGGDKTYQN VQQFIDEGNYTSGDNHTRLRDPH YVEDKGHKYLVFEANTGTENG YQGEESLFNKAYYGGGTNFFR KESQKLQQSAKKRDAELANGA LGIIELNNDYTLKKVMKPLITR GSSRPSIREDENGRSQKPVHPEG DMTMNIKIVNQATVLTFTTAL LAGGATQAFAKENNQKAYKET YGVSHITRHDMLQIPKQQQNEK YQVPQFDQSTIKNIESAKGLDV WDSWPLQNAADGTVAEYNGYH VVFALAGSPKDAADTSIYMFY QKVGDNSIDSWKNAGRVEFKDS DKFDANDPILKDQTQEWRGEA
22722	53090	A	22850	500	1034	

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22723	53091	A	22851	1	2396	MDKYLLHGPPRPPIASRCLA RVPGCAYSSIMVALSLVPLCAH MPTPSGLEVALPGNRTICWLSL WPSWQLDEDAQSPALESSIRQ FPTAPRSGISPLCAPHSCLGQGR GPASHPTSTQTLDISGVKTTTPRR FSVILQDLC SILGDSC LQFHLHR VPQQVSAVLLRVSGASPSATT LSTRTLWGPGAGSHPFVGHNT RLSPDLC PGKIVLRALKESRAG MPEQDKDPRVQENPDDQRTVP EVTGDARSAFWPLRDNGGSPSF VPRPGPLQTDLHAQSSEIRYNH ISQTSWTSSNTKRNAISSSYST GGLPGLKQRRGPASSRCQLTSL YSKTVSEDRPQAVSSGHTRCEK GADTSPGQTIAPTGGS PRSQDS RPRRRKIPLPRRRGEPLMLPPP LELGYRVTAEDLHLEKETAFQR INSALHVEDKAIPDCRPSQPSHT LSSLATGASGGPPVSKAHTMD AQQHRPKSQDCLGLLAPLASA AEVPTAPVSGKKHRPPGFLFSS SDPLPATSYHSRDSAQVTS LIPA PFTAASSDAGMRRTRPGTSA AAAAAPPSTLNPSTGSLNNEW MEAPHISWPQQLQHVSRGQ/N VRYNQRSQTSRTRS/CPPRKCQL QLPQLYGRPPATKAEEGPASSH CQLAHSSNTVSEDPQAVSSG HTRCEKKAGAS/RWASRF*STH YGCTAGQTQVPRLPGTGPSSI
22724	53092	A	22852	1	3392	MDKYLLHDP RPPIASRCLA RVPGCAYSSIMVALSLVPLCAH MPTPSGLEVALPGNRTICWLSL WPSWQLDEDAQSPALESSIRQ FPTAPRSGYPGTLCPSFLGPRP RTCEYHSKPVL CAPSSRASPSA TTLSTRTLWGPGAGSHPFVGHNT TRLSPDLC PGKIVLRALKESGA GMPEQDKDPRVQENPDDQRTVP PEVTGDARSAFWPLRDNGGSPSF FVPRPGPLQTDLHAQSSEIRYN HTSQTSWTSSST
22725	53093	A	22853	40	409	WKMRHETRYNVLVSRGVGCH RLFFLNGVFEHLGRAFVQRKV DTEHQLLRAAVPANQEHRLT QSQHVDGHSLLLLTLNPSFLCQI QEPISLGS GSGALSGNVRI RPQA QEAPPEPSVLTLLW
22726	53094	A	22857	3	220	



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22727	53095	A	22858	1	356	MAGPVKDREAFQRLNFVYQVS LRQGPBGDGAARRPRVTAPLPQ AAHCVLAQDPENQALARFYLIH TERTIAKRLVLRDPSPVKEELL CRGCSSLLVPGLTCTPAPRDR RGQRWGTGTDLP
22728	53096	A	22859	2	270	
22729	53097	A	22860	2	364	IFSALPARRKVLNLAAPVTEPR DQPWAMIIDVF/SRYSGSRGQPR QTLTKGELKVLMEKELPGVFL QSGKDKDAVDKL/KDGPGRPM GDAQGGTFSEVHPCSVAAITSA CHKVYFEKAGLK
22730	53098	A	22861	282	469	DCGSELQAPPPSLPGPLCPSIM PA/PPYASPPMMPMMGPPFRGM MPVGLAPGPMLLQYNTCS
22731	53099	A	22862	7	522	SVVWNSNGLQSNMPKFYCDY CDTY/LTHDPSVRKTHCSGRK HKENVKDYQKWMEEQAQSLI DKTTAAFGQGGKIPPTPFSAPPPA GAMIPPPSLPGPPRPGMMPAP HMGGPPMPPMMPGPPPGMMP VGAPAGMRPPMGGHMPMMPG PPMMRPPARPMMPVTRPGMTR PDR
22732	53100	A	22863	3	455	WFLIHDRTHTEKPKYKNCNV KAFHRSTCLHAHKRTHTEKPK YECNQ*GKAFNSSHSFQIHRT HTGEKPYECKECGKAFKGPSSV RRHERTHSTKKPYECKHCGKA LSYLTSTFHNHLMHTGEISHTC KICGKAFYSPSVIQTHT*TH
22733	53101	A	22864	1	1665	
22734	53102	A	22865	1	2650	

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22735	53103	A	22866	107	2384	MFGVHGTFLGIESRPLLSLSPS LLYTCEMFQDPVACEDVAVNF TQEEWALLDISQRKLYREVMI ETFRNLTSIGKKWSDQNIYEY QNPRRSFRSLIEKKVNEIKDDSH CGETFTQVPDDRNLNFQEKKASP EVKSCDSFVCAEVGIGNSSFNM SIRGDTGHKAYEYQYEGPKPY KCQQPKNKKAFRYRPSIRTQER DHTGEKPYACEKCGKTFISHSG IRRHVMVMHSGDGPYKCKFCGK AVHCLRLYLHERHTHTGEKPYE CKQCGKSFTYSATHRIHERTHT GEKPYEQCGKAFHSSSSFQA HKRTHTGKGPYECQCGKSFS WCHSFQIHERHTHTGEKPCECK CNKAFRSYRSYLHRKRSHTGEK PYQCKEKRKAFTYPSLLRRHER THSAKKPYE/CSFYHERHTHT EKPYECKQCGKAFCAPHLRR HGRTH/SAEKPYECKECGKA SASHLQIHERTQTHIRIHSGERP YKCKTCGKGFYSPKSFQRHEKT HTAEKPYECKQCGKAFSSSSSF PYHERHTHTGEKPYECKQCGKA FRSASILQMHAAGTHPEEKPYEC KQCGKAFRSAPHLRIHGRHTHTG EKPYECKECGKAFRSAKNLRIH ERTQTHVVRMHsverpyKCKIC GKGFYSKSFQIHEKSYTGKGP YECGLQLPRTAAESVDSEKLQG PGKQETHVQLLSLYCLRRVLDG
22736	53104	A	22867	1	391	MKEHIERNPVTIKNVKPSINT VPLEDMKAHTGEKPYERQKCE LNQRLRDYAFQYHESNSGVVS ADSETKSGHSGCLIKEMKNATK THNGITGGIIFNANHWRNTNTIY TRIH/GEKSCDYKKCGKAFNQ YSSLRRHESHTGEKPYERQKC ELNQRLRDYAFQYHESNSGVV SADSETKSGHSGCLIKEMKNAT KTHNGITGGIIFNANHWRNTNTI YTRIHINKQEKYQATHVSYAAN
22737	53105	C	22868	179	289	
22738	53106	A	22869	3	206	

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22739	53107	A	22870	1	855	MPRAEPRATLGEQEKAAGLPLG AWRLYLLRHFRKQTELRRSGSR DVTGALLVAAAVASEAVGSLR VAEGGPNTLLQVLRIW/PWC NKEKLTMEERKVKRRSPKSFSA HCTQVVNVQKMSIPVSK/STG FSNPASQVNFSTRPKVKKEVM KAEKTKPQGLEEQQRHSSQLPIQ HSFLTVDVSRCSRKMERGLLSL LNDHFSWKTFKHFGNECSIEQ MEHVSSELQEKLARLNLLEYG ELEELPEDKRKTASDNLDRLL SDLEELNSSIQKLHLA/DAQDVP
22740	53108	A	22871	67	598	SIRRHCGQRCLVRIRIWLKLPP RLAVREGLRCGTLRDVMPSPM SGVVVGPPGPPGPGCDTTSGP APGTFGQASAPVSPRRGHGEY LCSSPTPVFFPGLWQPPRAGFTA PERSWSRCGRWQLRAA WAGR LSSSPVSALLTFKVILSTGLLFG PLGGWKILSSLP EIFANLAT
22741	53109	A	22872	1	372	
22742	53110	A	22873	1	3961	FALAPEAGFYSLGGQPPSTRISGS GCVHPVRVWPFSEIPAIGTLNV GESMQLEVEFEPQSVGDHSGRL IVCYDTGEKVFSVLYGAAIDMN IRLDKNSLTIEKTYISLANQRTIT IHNRNSIIAHFLWKVFATQQUE DREKYSKVTAVFSIAASSNSRF ALYESSYNSQRSPEWACDDLI KEEKDETFEFCITDPLLREH LSVLSRTFANQRRVLVQGD SKLF FNNVFTVEPLGWSEKEMAEIR DVQKDKTKV
22743	53111	A	22874	1248	1716	WYAEQSAHEATAQLSTPMAIR RAVVMPEQQRNRTKKEY/SLRI PFGLPGDRMCFTHRNDD/PTG NEVTPPSLAADLGQOFGGDAT DROPMIHMQLIHQGEQLCF VEHGINMLRLGEILHLAATRHE AHFLAFRQFFNHQRSFCALNLA RQDRITDF
22744	53112	A	22875	478	663	
22745	53113	A	22876	508	884	RQRHPDQRPGRSLFHGHGMCP TTPQQQVDSQINGDNNSESA P*QRRADSIHRSSLHIKRRPPE DVSRCFLCIDAFRQGFTEFNKK GIRVRIPFGLPGDRMCFTHRN DDRPMAMKLLPFAGNKV

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22746	53114	A	22877	1	506	AFCRFSILVGSFISETDMCLLC PFPIGKAISVRLQYFKHETKQSI CLGNQKSPLVCPFGEQGLDSS SSLDLPSNPAPTLCPVQPPR GPVSVSPVSVMSGRLAPLLSA *LFVSVILGRMVILKNPGVLGQ RQAGSPGAPGLPSPSVRAPLG HKCSERSPSAT
22747	53115	A	22878	621	877	RRRRRRKQRRKQPWSSPARGA *PGPRRPSLRAAGTRRRRKRRA SWTRCSNTCPGRCTRCSRSNQA SCPSLLHLLLLFGSFFSFY
22748	53116	A	22879	1	1339	MPSYKGGGETQRHATNGTAAP PRRSSCRGDAIKLPHAEKKEGR PPASTSYPLRLGTRRSARSSHC WCTSWEDPPEATAGEEKRIHPK SPAVCCGEGTVLTASTVTWRA EPARGEIWARLCPDRPGSRAA AVIWERPCCDRLIADRTGPPNS EPHCRAATIPLTWLPEGQTLT LKALAKMAAPALLLALLLPV GAWPGLPRRPCVHCCRPAPW/L WTLCPGKEGEAGVRGRAGRS KEGAA\GCPGAPQASARRGSV GPPGAACRRAYAAFSVGRREG LHSSDHFAQVPFDTLVNLDGA FDLAAGRFLCTVPGVYFLSNV HTWNYKETYLHIMLNR/QAA/V VLYAQPSERSVMQAQSLMLLL RRATPVVSVPEELPAVLPGQDE LGSLLQHAHHPLADGLVRHEL QPGLAGSSRTGHLVFRTDHGLR QHASHGCPVGPLHVP
22749	53117	A	22880	532	783	VGSTRGIVEGLIFLGEGGECYY PRSLFTVANFTVGKRVKTLNC PSTDKWINKMCHIHTVEYYSDI KRNEIPMRATCRQTLKA
22750	53118	A	22881	275	720	TPIHNCFKENKIPRNPTYKEHEG PLQGEQTTSQGNKRGYKQME EHSMLMGGRINIMKMAILPKVI YRFITPIKLPMTFFTELEKTTSKF IWNQKRARIAKSILSRKNKAG/ AHHAT*LQTLQGYSNQNSMVL VPKQRYRPMEQSPQK

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22751	53119	A	22882	1	609	MGRNQSRKAENSKNQASSTP KDHASPA TEQSWMGND FDEL TELGFRKSVMTNFSQLKEDVRT HHKEAKNLKRLDKWLTRINSI EETLNDLMELKTMARELRDTC TSFSSRFQVEEGEIQTIREYY EHLYANKLENLEEMDKFLDTY TLPRLNQEEVESLNRPITGSEIE AIINSLPTKKIPGPRDFTA*RRP* MT*WS*KPWHENYVTHAQASV ADSIKWKKGKYKHHQRIL*TP LRK*TRKSRNRNG*IPGHIHSPKT KPGRS*IPETNNRF*N*GNN**P TNQKNSRARQIHSQILPEVQRG
22752	53120	A	22883	191	564	PNARKLRLTKKDHSFD**RRKL RKIK*MQ*KMIKGISQ/RSRHRNT NYHQRTL*TPLHK*TGKSRNRNG *IPGHIHPPKSKPGRSQIPEYTNN KI*N*GSN**PINQKKSRTGRIHS QILPEVQRGA
22753	53121	A	22884	337	589	TRRSRRNG*IPGHIHPPKTKPGR SRIPE*TNRL*N*GSS**PTNQK KPRTRETDSRILPEVQRGAGTIP SETIPNNRKRGTTP
22754	53122	A	22885	162	539	TRKSRNRNG*IPGHIHPSKTKPGR S*IPETNNKF*N*GSN**PTNQK KPRTRQVHSRILPEPISHGMGKS WKQSL*KPAQDKAVPSLIAPIQ HIISSGQGNQARERNKGYSNR KRGSQIVSVCR
22755	53123	A	22886	329	459	NDDTFRKPHRLSPKSP*AADKQ LQQSLRIQNQCAKLRSIPIHH
22756	53124	A	22887	58	440	GLSRQFSPHSVNVKAAGEVPTGR GPPQLSKANVARLPLSIPPLWA GHLWKKGSPSQIIDKTLISLG QST*GKGQLWVQLQRT*AFLPA GSEESSGSPSTA/PNSAKGQTPS SSGSLTRASSSSLYLW
22757	53125	A	22888	219	332	NEGKNLKGSQRERNNTNYHQRT Q*TPLHK*TRKSRNRNG
22758	53126	A	22889	1295	1435	QNQRQKPHDYLNRCRK/W/HFD KIQQPSMLKTLNLGNDGTYL RIIRDI

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22759	53127	A	22890	2	648	YRFSGPTIRSIQNHTHTNQGRK WIKKGIKKPRAQRYESLKGPE V*PSGQGVTCLLRADWLSPLL SGTYVGPFLRNTRFAKKHNK KGLKKMQANNAKAMSARAE AIKALVKPEVKPKIPKCS/RR KLRFDFAYIAHPKLWGRRCFVA RFCQASGCSGPKGAKVPKA KVKVS/PKAKAKAKADQTKA QAAAPALVPAQAPKRTQAPTK ASE
22760	53128	A	22891	3	370	QMYCVFNERNEDACRY/GS/AIG VLAFLASAFFLVVDAYFPQISN ATDRKYLIGDLLFSGVLA SLAYQRYKAGVDDFIQNYVDPTD PNTAYASYPGASVDNYQQPPFT QNAETTEGYQPPVY
22761	53129	A	22892	1	297	
22762	53130	A	22893	3	713	GGSGGDDGMESGAYGAAGA GGSFNLRRLTQPOVVARAVV LIVFALIVFSCIYEGEYSNAHES KQMYCVFNERNEDACRYGSAIG VLAFLASAFFLVVDAYFPQISN ATDRKYLIGDLLF/SALWTF LWFR/VGFCFLTNQWAVTK/PKT VLVGADSVRAAITFSFISFSG VLASLGAYQRYKAGVDDFIQNY VDPTDPNTAYASYPGASVDN YQPPFTQNAETTEGYQPPV
22763	53131	A	22894	3	219	
22764	53132	A	22895	1445	1777	PVHLGSTCHQCRQKTIDTKTNC RNPRLGA/CRGQFCGCLQNR YGEEVRDALLDPNWHCP/HCR GICNCSFCRQRDRGCATGLVY LAKYHGFNGNVHAYLSLQKQEF EMQA
22765	53133	A	22896	3	337	
22766	53134	A	22897	425	1209	TMSSTQFNKGPSYQLFAEIKNQ LLFKCDPQKQAALCSWIEGLTR LSFSPDFQKSLKEGIVLCTLMN KLGSPVKI/NRLMQNWHQLENL SNFIKAMVGYDMNPMDFEAN DLFESRNMNTQNRILP/PLDHSTI SLQMGANKRSSQ/VGMTAPGTP QHITYNTKLGAHKCDNSSMSLI MGDTQSANHSVQGFGLGQQIY YPKYCPQ/GPAASGAPLDAGNC PGPGAEAPDPPCSQEAAATEAPE HAGSLHHRPVVWVGIFLYRLL SFFFL

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22767	53135	A	22898	156	559	QHIRETPGAQVHSCGKWNPQA LWRTAWQLLT/DTKHTLGKPPS /MPHLVIYPLEISC\HTKTCTRML IASFFIITKTWKRPRCPSPVDKWK NKPWCIHTGLLSSTVPPGEPGC PIPELSGLLMGLQTTSSRCSVRQ VW
22768	53136	A	22899	161	359	
22769	53137	A	22900	151	383	
22770	53138	A	22901	238	546	PQEHIMEHLEGVINKPRGRCR PQELQLHYLQKCMDYDGNL DGFRTLPPQSTHVHKKEEGSEQ APLMSEDELINIIDGVLRDDDK NNDGYIDYAEFAKSLQ
22771	53139	A	22902	1	819	MAAEDKLLLPQLPELFTSKQL LDDVEVVTEPAGSRIVQKKVFK GLDLLEKAAEMLSQL/DLVAEL ELPKTKNSAEINHTANFSMAYP SLIAMASQRQAKRERHKQKEL EHLRLSAIKSAVETGQADDERVR EYLLHLQSLLEIESIDQEIKILR ERDSSREASTSNSSRQERPPVKP FILTRNMAQVKVFGAGYPSLAT MTVSDWYKQHWKYGALPDQG IAKATPEEFRKAAQQQEGQEEK EEEDDEQTLYRVREWDWKG HPRDYGSSQSMG
22772	53140	B	22903	238	410	
22773	53141	A	22904	1	638	VAEELPKTKNSAEINHTANFS MAYPSLIAMASQRQAKRERHK QKELEHLRLSAIKSAVETGQADD ERVREYLLHLQSLLEIESIDQE IKILRERDSSREASTSNSSRQERP PVKPFILTRNMAQVKVFGAGYP SLATMTVSDWYKQHWKYGAL PDQGIKATPEEFRKAAQQQEG QEEKEEEDDEQTLYRVREWD WKGHPRDYGSSQSMG

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22774	53142	A	22905	3	1083	RGNSRLRYSHEDLQLPRLPEL FETGRQLLDEVEVATDPAGFR IVQEKIVFGKGLDLLEAAEML ISQSTLFGRECRFWKDLSPHLI TFWGPAPQGAALPLKQVNP SKR LRILQRAREHFTNYLTQCHC YHVGQSFELPKTMNNSAENH TANSSMAYPMLGAMASQRQA KIQRKQKKELEHRLSAMKSA VESGQADDERVREYLLHLQR WVDISLEIESIDQEIKILRERDS SREASTSNSSRQERPPAKPFILT RNMAQAKVFGAGYPSLP/TLW TVSDWYEQHRKYGSITGFRGIA KSAPEGISGKAAQQEEQEEKE EEDDEPNFHRAREWDDWKD TPSLGAYGNRQNMG
22775	53143	A	22906	30	457	
22776	53144	A	22907	401	1509	MWKMNCSSLQSKQMCNQLPP GSTRDGSWKFRQDPRGLGKNA/C DCDSCIASEFGVRGYPTIKLLKG DLAYNYRGPRTKDDIEFAHRV SGALIRPLPSQQMFEHMQKRHR VFFVYVGGESPLKYVTLKEMP AVLVFKDETYFVYDEYEDGDL SSWINRERFQNYLAMDGFLLYE LGDIDLNASSLRERKLILPEDIP LYVGKLVALAVIDEKNTSVEHT SELTVPVTVVVNTSNQYFLLD RQIKNVEDMVQFINNILDGTVE AQGGDSILQRLKRIVDAKSTIV SIFKSSPLMGCFLGFLPLGVISIM CYGIYATDTDGGYIEERYVSK SENENQEQIEESKEQEPSSGGS VVPVTVQEPKDVLEKKKD
22777	53145	A	22908	53	543	LPISSLRTQTLFSSPLFPQHFEHY LALVSVLPFQLGRORTAPAKKG GEK/RKGHSAINEVVIQYETINI HKRIHGVRFKKRAPRALREIPK FAIKEVETLSVRIDSRFNKALCA KGIRNVPIRYRVLQRKRNEDE DSPNKRYTLVTYVPVSTFKNVQ TVHVHEN
22778	53146	A	22909	106	491	IGKGTNLMYGEK/RKGHSAINE EVVIQYETINIHKRIHGVRFKKR APRALREIPKFAIKEVETLSVRI DSRFNKAALCAKGIRNVPIRYR QLSRKRNEDESPNKRYTLVTY VPYSTFKNVQTVHVHEN
22779	53147	A	22910	1	321	



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22780	53148	A	22911	313	402	R*GGEKKKGRSAINVVTREYTI INIHKRIHGVGFKKRAPRALKEI RKFAKMEKMGTPDVRIDTRLNK AVWAKGIRNVPIRYIRVRLSRKR NEDESPNKLYTLVTVVPVTTT KNLQTVNVVDEN
22781	53149	A	22912	1	3801	
22782	53150	A	22913	2	535	GGGMADTVLFEFLHTEMVAEL WAHDPDPGPGVSAGLRGEEAG ATKGQKMSLSVLEGMGRFVGQ ALGERLPRETLAFREELDLVKF LCKDLWVAVFQKQMDSLRTN HQGTYYVLQDNSFPLLLPMGSG LQV/YLEEAPKFLAFTCGLLRSA LYTLGIESVVTASVAALPVCKF QVVIPKS
22783	53151	A	22914	1	201	GDLPEINPLSSCSLLHEKDPPT TSGPQT/DQPKKHHTNFKSGP/T GNRTVQLTWQPLPEPLELWPK AL
22784	53152	B	22915	226	522	
22785	53153	C	22916	1	705	
22786	53154	C	22917	1	462	
22787	53155	C	22918	1	505	
22788	53156	B	22919	1	1059	
22789	53157	C	22920	1	411	
22790	53158	A	22921	1	212	LTSFLHCLSHHHYHGAQIHPRH FLHLICRCHCHQYCHHAYLDPC PQDSHHLHWCWQPLPEPLELRP /RLSD
22791	53159	B	22922	1	864	
22792	53160	B	22923	1	635	
22793	53161	B	22924	1	874	
22794	53162	A	22925	1	566	MPSVRTGDPILHAHTLNPAVW LA WAVEGESLT LNWIWCPWQI EPLRHLYATPGSDATSLTVPTR VISPLCVDSWLFDPMLMKTTHAP ERTFLSFPAAKRQAHLCVLAS NCDKPMYVVLVKAHCAEHQIN LIKDDDNKKLGEWEGPCTIDRE GKPKCVVGCSAAVVKDY/GKE SQAKDVIEQYFKCKK
22795	53163	A	22926	59	602	PTAMVEEGIAAGGVMDVNTAV QEVLTALIHDLARGIREAAK ALDKYVYQSYCGFLQPEQNC HPREEGMEFMVLAQKF*MASV LPET*EK/RQAHLCVLASNCDEP MYVKLVLEALCAEHQINLIKVD DNKKLGEWVGLCKIDREGKPR KVVGCSVVVKDYGKESQAK DVIEEYFKCKK

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22796	53164	C	22927	135	293	
22797	53165	B	22928	20	325	
22798	53166	A	22929	677	1031	TPTMCLRSHPLPLALVSVILSFP QPSFSSSLINSSWSSPRSSLSSSS RSFSSGRVNLHPPTPSSH*SHL SSRSCCSAPLLTYHSSLLLVCS VPFPFPFPFPGENPLFVLSGSAP
22799	53167	A	22930	1	1011	MCLRVIFTIGAVSVILSFLSFFII LDQLQLVIPQSSLSSSSNLEDPY SESYAAARRPDSASTEPPPPAG KSSAEYRAHFLAVSTEAERIRA DLVLRARPLGPAHPRTLWPTTP AGPFCRMVAHNQVA\ADNAVS TAAEPRRRPEP/SPSSSSSSPAAT ARPRPCPAV/PAPAPGDTHTFTF RSHADYRRITRASALLDA\LG YWGPLSVHGAHEPLRAEPVGT FPVRDS/RQRNCFALSVKMAS GPTSIRVHFQAGRFLDGSRES FDCLFELLEHYRGGSRADLLGA TLRQRRVRPLQELCRQRIRRPP VGRENLARIPNLVLRDY\LSS FPFQI
22800	53168	B	22931	180	1466	
22801	53169	A	22932	1	207	
22802	53170	A	22933	408	3758	CLQQGPGGNQHCCHREEAPAV AACQEPGGHSEPVLPPLGAPP SEEDGRQQVGSSRLRHMAEMI ATEREYIRCLGYVIDNYFPME RMDLPQGLRGKHHVIFGNLEK LHDFHQHFLRELERCQHCPLA VGRSFLRHILGQKQFPESPSGER PGLTSSHAPCPWMPHYLPEGPA CPVLRIPCEAFNWKHVECTDPV VSPPKQSPLLFQEEQFGMYVIY SKNKQPSDALLSSHGNAFFKVI PLGPPTACPAL
22803	53171	A	22934	3	355	EAAELDAMCTATRQWSRAGQ GVTGRPCQGRPLRCGLRSTITP KPIPGGHRKKPLLGA/GKHTLS YVERWHWEGHSGI*TRDRQNF ERRLTVPPSRQPFAPTDETRCG DDRISFCNNY

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22804	53172	A	22935	1928	5312	CLQQGPGGNQHCCHREEA PAAACQEPGHSPESEVLPLGAPPA SEEDGRQQVGSRLRHMAEMI ATEREYIRCLGYVIDNYFPEME RMDLPQGLRGKHHVIFGNLEK LHDFHQHFLELERCQHCPLA VGRSFLRHLLIGKQFPESPSEGER PGLTSSHAPCPWMPHYLPEGPA CPVLRIPCEAFNW/KHVECTDPV VSPPKQSPLLFQEEQFGMYVIY SKNKPQSDALLSSHGNAFFKDK QRELGDKMDLASY
22805	53173	A	22936	3	306	
22806	53174	A	22937	3	460	LQRQRQHPAAAPVVRCTFC FTDIVIMPKRKSPEITEGKDG KVTKEPTRRSARLSAKPAPPK PEPKRKTSAKKEPGAKISRG KGGKEEKQEGAGKEGTAPSENG ETKAEIHHISRTVNVSTSRGTP PSTLSVKGQIETVRVKGTE
22807	53175	A	22938	3	285	SSCPAREQLQRQRQHPAAAPV PVRCTFCFTDIVIMPKRKSPE TEGKDGSKVTKEPTRRSARLS /AVFV*FKLSLQKPAPPKPEPKP RKTS
22808	53176	A	22939	1	413	
22809	53177	A	22940	2	454	AEVQVEEAGLRRLRVSSCSGR GSIQRRFYAVPVRCTFCFTDIV IMPKRKSPEITEGIDGSKVTKE EPTRRSARLSAKPAPNPPEQPR KTSAKKEPGAKISRGAKGKKE EKQEGAKIETGAPAEDETKE EAQKTESVDNEGRMNC
22810	53178	B	22941	55	186	
22811	53179	A	22942	2	397	
22812	53180	B	22943	339	470	
22813	53181	A	22944	1	139	
22814	53182	A	22945	1	416	MPLLYHLRCAVYVQQCNFANP VVSALCTCLVKPVVEKCTPYA VLLLEALALRNVRQLEDLVIEAV YADVLRGSMQDRNQRLVEDYS IGRDIQRQDLASAIARTLQEWG/C HQHLLSLRASAASRQRCQGYHK LHDKQRLRLG
22815	53183	A	22946	315	570	

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22816	53184	A	22947	933	1841	RPAEPDPGSGHPEPKSPTLSAV MSAEVKVTGRNQEQFLLLAKS AKGAVLATLIHQVLEAPGVY VFGELLDPMPNVRELAESDFAST FRLLTVFAYGTYADYLAERN LPPLTEAQKNKLSDTFSVVTL AAKVKCIPYAVLLEALALRNV RQLEDLVIEAVYADVLRGSLDQ RNKRUEVADYSIGRDIQRQDLS AIARTLQEWCVGCEVVLGIEE QVSRANQHKEQQLGLKKHIES EVANLKKTIKVTAAA\AAATS QDPEQHLTELREPAPGTNQRQ PSKKASKGKGLRGSAKIWSKS
22817	53185	A	22948	1	1319	
22818	53186	A	22949	365	1331	RAGGGAPWRFTGTFTVAPET AADLSLHRHLLSRTTSAWGTA CITVPIEPPTWPTWAVPIQWGG SATCIEQEDKLKQGLYGYSSQV NQAMDSGLRPVVDVSNVIRVP QDYVTQSVPLREMNGSLGVLA QQLQNAKLQADAHAHSALKQSD DLKPVPDQAFKVVTTPADAL QPLIPAAQTFTQQLVMVGDYIA QQGTQECGKTFSRASYLVQHS RIHIGKKPYECKECGKAFSSGS YLVQHQRHTEKPYECNCKG KAFTVYQQLIGHQSVHTGEKPF ECKECGKAFRLNSFLTEHQRVH TGEKPFKCKCKGKTFRYSSAP
22819	53187	A	22950	2	206	GGGQGATSFGRPESGFIRHQPPP PCRRSSPTRSKLYTL\SAPE*RS VPTSAPGPQDRPPGSVSKKSW
22820	53188	A	22951	571	1102	MGSVSLGNPQGPFFQFTRLPLAN VIHPTFFWETGPRGADSLGAKG RKWQPTFTSRCNKLKVVYLRAG SQAA TGGPSPSLPNLHVKKLRP RKAEA WPGRRNTGKVSGR/LA ALRAPYGESFARAAGPRDAPS/ QQPRPQPEHAPTILISLGSNFGG MVEESWCRMNPDSSGRPKEVAP WPPPS TK
22821	53189	A	22952	1	591	MGPHWKDFKEIDVKKYIDALSI HTYTHTHTHTHADITGDHGG GALLELEINSHLKVQFRELNITA AKETEDGGGGKAIIFVFPQIK SFQKIQVWLRRILPKPTRKSCV QNMHWPPRSRTLKAMRDSIPE DLVFPSEIMCMRIHVKLGDGRL IKAHLDKAQQYHVERNAETFS GVYMKLTGKDINVEFPEFQL

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22822	53190	A	22953	2	508	APPFELPRAAGIRHEGKFSQEK AMFSSSAKIVKPNGEKPDEFES GISQALLELEMNSDLKAQLREL NITAAKEIEVGGGRKAIHIVVPV QLKSFQKIQVRLVRELEKFKFSG KHVVFIHRRRLPKPTRKSRTK NKQKRP RSRTLTA VHDAIPEDL VFPSEIVGKRNR
22823	53191	A	22954	145	395	
22824	53192	A	22955	536	717	
22825	53193	A	22956	1	729	
22826	53194	A	22957	1	1158	
22827	53195	A	22958	1	2869	MAHLRSCSSLYQPGHLLPPHN PIQDHPLTAPSLTHL TRRAYFTD EKTGGQSAYAVSLLRECVKL RPSDPTVPLMAAKVCIGSLRW MAAKHLAGVLLHLSLEECYWS PLSHPLPEFMGKEESSFATQAL RKPHLYEGDNLYCPKDNIEEAL LLLLISESMLANKL LLEMERV QSPGVESGVDRQLSPYSDTNVN AQNAQIVPVAAKSAQNEVPGY PEETESRVQSNLLTQFQDLRL LLAAPECLPPRMSPPS
22828	53196	B	22959	28	139	
22829	53197	A	22960	60	812	LASPPFVPLHRCSAGSQPPGPVP EGLIRIYSMRFCPSHRTLVLK AKDIRHEVVNINLRNKPWYY TKHPFGHIPVLKTSKQQLJYES VIACEYLLDDAYPGRKLPYDP YERVROQM LLELF GKVP HLPK EPPGSVEDVGENAPNLKAALR\ QEFNLEIELEYQNTTFFG/GTCI SMIDYLP/LWPWFER/LCEMGY WNCVSHTPALRLWISAMKWD PTVCALLMDKEHFQGLFNPFY QNNPNAFDGLC
22830	53198	A	22961	2	251	ILLDFKPWDDTDMAQLEACV CSIQLEELV*GASKLVP MGYGI RKQLQCVVEDDKVGTDLLEEI TKFEEHVQSDVIAAFNKI

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22831	53199	A	22962	353	1071	APLWPRERKFKYQMNGPVAS ASRQSSAPG/NDHSELVLQIASL EVENQSLRGVVQELQAVASN EAWLNIRRRREKSSPGH/RSTVP QTQHVSPMRQVERPSRPPYYD PGQEAEDNEDDDIDLDNKEED KEARRLREERLRLYAKKAKNP SLVAKSSILLDIKPWDNKTDMT QLEACVRSIQLDGLVSGASKLA SVGYGIRKMQICQVVEDDKVG TDLLEEITKFEHVQSVDI AAL
22832	53200	A	22963	3	482	PWANEAPAKK/PATPAEG/DAR DDIDLFGSDNEEEDKQAGHS CGEERLRYHAGEEGPRKPAL/ VWPKSLPSLLDV/KPWDDDDGP WPSLEACVRSIQLDGLVWGGF PSLVPVGYGIRKLQICQVVED DKVGTDFPWRREITKFEEARA RSVDIASFSTRS
22833	53201	A	22964	1	2835	
22834	53202	B	22965	571	1337	
22835	53203	A	22966	1	489	
22836	53204	A	22967	1	618	
22837	53205	A	22968	3	5227	SWSRVRPRTRPEGLRQLKMRT GWATPRRPAGLLMLLFWFFDL AEPsGRAVNDPLTIFHGNTGKC IKPGYGWIVADHCDETEDKLW KWVPQHRLFHLHSQKCLGLDIT KSVNELRMFSCDSSAMLWWKC EHHSLYGAARYRLALKDGHGT AISNASDVWKKGGSEELCDQP YHEIYTRDGSNSYGRPCFEFFLID GTWHHDCLDEDHNGPWCATT LNYEYDRKWGICLKPENGCD NWEKNEQFGRCYQFNQT
22838	53206	A	22969	3	453	GQSPILVIYHETKRPSGISERFSG STSGNTATLTITGTQAMDEADY YCQAGRDFGGGTKLTVLGQPK AAPSVTLPSPSEELQANKATL VCLISDFYPGAVTVAWKAHSN PVKAGVETTPSKQSNKYYAA SSYLSLTPEQ*KSHRSYSC
22839	53207	A	22970	2	354	
22840	53208	A	22971	1	315	

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22841	53209	A	22972	1	712	MAWTLFLTLTQTGTGWSWAQS ALTQPASVSGSPGQSITISIGTS SDIGAYYFVSWYQQYPGKAPK LLIFDVSGRPSGSSRFSGSKSGN TASLTISGLQAEDEADYYCASY ARSTTVFGGGTSVTVLGGPKA APSVTLAFPSSEELQANKATLV CLISDFYPGAVKVAWKADGSP VNAGVETTTSPKQSNKYYAAS SYVYLSLTPEQWKSRSYSCQV THEGSTVEKTVAPTECS
22842	53210	A	22973	1	1779	
22843	53211	A	22975	1	2001	
22844	53212	A	22976	292	1497	TGQLNGFHEAFIEEGTFLFTSES VGEHGPDKICDQISDAVLDA HLQQDPDAKVA/CETVAKTGM LLVAGEITSRAAVDLPRKVVRE SCLNTLEYDDSSKGF*LQRLVN VLVALEQQSPDIAQGVHLDNRNE EDIGAGDQGLMFGYATDETEE CMPLTIVLAHKLNAKLAELRRN GTLPWLRPDSKTQTVTVQYMQD RGAVLPIRVHTIVISVQHDEEVC LDEMRDALKEKVIKAVVPAKY LDEDTIYHLQPSG/RTFVIGGPQ GDAGLTGRKIIIVDTYGGWGA HGG/GAFSGKDYTKVDRSAAY AARWVAKSLVKGGLCRRVLV QVSYAIGVSHPLSISIFHYGTSQ KSERELL*IVKKNFDLRPGVIVR DLDLKKPIYQRTAAYGHFGRDS FPWEVPKKLIY

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22845	53213	A	22977	67	1579	FFVRSLSHTDTNMNGQLNGFHEALIEEGTFLFTSKADGEGHPDKICDQISEAVLD AHLHQDPDAKVACETVAKTGMILLAGEITSRAAVDYQKVVR EAVKHIGYDDSSKGF DYKTCNVLVALEQQSPDI AQGVHLD RNEEDIGAGDQGLMFGYATDETEECMPLTIVLAHKLNAKLAELRRNGTLPWLRPDSKTQVTVQYMQDRGAVLP IRVHTIVISVQHDEEVC LDEM RDALKEKVIAKAVVPAKYLD EDTIYHLQPSGRFVIGGPGQDAGLTGRIIIVDPYD GWAHEEGAFSGKDYTKVSRSAAYGARWVARSLVKGGLCRRVLVQVPGPPKKPDEDLYLECEPDPVLALTQTLSFQVLMPSGPLPRTSVVPREQQMLPLKDSDLTQWPWYSGNCDRYAVESALLHLQKDGAYTVRPSSGPHGSQPFTLAVLLRGRVFNPIRRLDGGRHYALGREGRNREELFSSVAA MVQHFMWHPLPLVDRHSGSRELT
22846	53214	A	22978	3	325	
22847	53215	A	22979	15	1014	
22848	53216	A	22980	7	592	LLCSGRHSLQGVMGILSFLPVLATESDWADCKSPQPWGHMMLLWTA VLSLAPVAGTPAAPPKAVLKLEPQWNVLQEDSVLTCRGTHSPESDSIQWFHNGNLIPHTHTQPSYRFKANNNDSGEYTCQTGTQTSLSDPVHLTVLSGQWRKAPGWTEGQDG*NLISGRGLQERGVACLLGSIASVCLSTYQWLFLLP
22849	53217	A	22981	32	1150	EKA VTA VLWAPARLQGVMGILSFLPVLATESDWADCKSPQPWGHMMLLWTA VLSLAPVAGTPAAPPKAVLKLEPQWINGGSRSDSVLTCRGTHSPESDSIQWFHNGNLIPHTHTQPSLQVSRANNNDSGEYTCQTGTSLSDPVHLTVLSEWLVLQTPHLEFQEGETIVLRCHSWRDKPLVKVTFPHNGKSKKFSRSDPNFSIPQANHSHSGDYHCTGNIGYTLFIPLRLTITVQAPSSSPMGIIVAVVTGTAVA AIVAAVVALIYCRKKRISANPTNPDEADKVG AENTITYFTSQWHPGWLWEEPPDQNRILVSI VLA LGIWRNRSEREDLVFPGLKFPLGEDTGRCCQFPKEKVLPGVIL



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22850	53218	A	22982	1	471	MKSSFQGHNKEKREKKGPSLFS AAYGGGSCLLLSIMAAALRPLVK PKIVKKRTKEFIWHQSDQHVKI KCNWRKPRGQILMPNTGHGNS /KKT K H M L P S G F R K F L V P S V K E L E V L M C N K S P C A E I A H S V S S K I N K T I V E R A A Q / L A V R V T N P N A R L R S E E N E
22851	53219	A	22983	103	564	GIFRGIMAAALRPLVKPKIVKKR TKKFIHQSDRYVVKIKRNWRKP RGIDNRVRRRFKGGQILMPNIGY G/SNKKTKHMLPKWLSGKFLG SHQRSREL/EKLLA*CCNKFFTC CPRFVSHCFSGFTGKGLRGER SLPNWAFRVTPNPARNLRSEENE
22852	53220	A	22984	3	177	
22853	53221	A	22985	74	735	RFAGAGAIPEARARPPDVQAAE EEKEMDL PDSASRVF/CGDASS NMGEHRMNVNAIIL/AQKNML D/RFEKTNEMLLNFNNLSSARL ASRLSERFLHHTRTLVEMKRDL /DSIFRRIRTLKGKLARQHPEAF SHIPEASFLEED/EDPIPTQAPT TTIATSE/QSTG/SCDTSPTDV/S PSLEPLASEDSLHVQALASPAI NGPQPDQIDEEMTGRIALPARC
22854	53222	A	22986	3	275	MRTVAEKVDVAVRVVHIHVSNTL RRSDKRKDRVEISPEQLSAAST EAERLAELTGRPMRVVGVYHVS HPHITVWPSHVGVYHGVAMFI VFRN
22855	53223	A	22987	1	886	AKMAVQVVQAVQAVHLESDA FLVCLNHALSTEKEEVMGLCIG ELNDDTRSDSKFAYTGTEMRT VAEKVDVAVRVVHIHVSILRRSD KRKDRVEISPEQLSAASTEAE LAELTGRPMRVVGVYHSHPHI TVWPSHVVDVRTQAMYQMMDQ GFVGLIFSCFIEDKNTKTGRVLY TCFQSIQAQKSSEYERIEIP/IHIV PHVTIGKVCLES/AVELPKILCP/ QEEQDAYRRIHSLTHLDSVTKI HNGSVFTKNLCSQMSAVSGPLL QWLEDRLEQNQQHILQEL/HQE KEELMQELSSLE

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22856	53224	A	22988	10	988	LKAMSWAKMAVQVVQVAVQA VHLESDAFLVCLNHAI STEKEE VMGLCIGELNDDTSRSDSKFAY TGTEMRTVAEKVDAVRVHIHS VILARRSDKRKDQVEISPGQLSA ASTEAEKLAELTGHPMRVVGW YHSHPHITVWPSHVDVRTQAM YQMMDQGFVGLFISCFIEDKNT RAGRVLVYTCFQSIQAQKSSEL HGPQDFWSSSQHISIEGQKEEER YERIEIPIHVPHVTIGKACLES VELPKILCQEEQDAYWRIHSLT HLDVSVTKIHNGSVFTKNLCSQM SAVSGPLLQWLLEDRLQNQQH LQELQKEEELMQLSSLE
22857	53225	A	22989	1	1362	
22858	53226	A	22990	284	542	KLFQKKNNKSSCISDNFFFLAI MVNLLQIVRDHWVHVVLVPM GFVIGCYLDRKSDERLTAFRNK SMLFSFPHRELQPSSEVTWK
22859	53227	A	22991	272	1241	FPGGAACDICVWKEENGSLMS MKMGWKA KSCLPVTVHPRCL TPYSARLSSTFPL*NSITG*QS PACKRPF*LTTC*GGSRRNSNR KAA*GPCSPPPSPPPSPATLPR GPAGLQPPGPVLPPLRPKHY APGGLPAPPASLLEDDDDTFCTS QAMQFTAPTKLSPPALLPEKDS FSSALDEIEELCPTSTSTEATA ATDSVKGTSSAEGTQKLDGPQE SRADDSKLMDSLPGNFETTST GFLTDLTLDLIFADIDTSMYDF DPCTSSSGTASMAPVSA DDL KTALPYSSQPVTPSQPFKMDLT ELDHIMEVLVGS
22860	53228	A	22992	1	3234	MELKCVCLKNRSPSAEEQPSLL PEPSAQESHGGHPRSALYGRER LTGQPPSSPHNPAPWASCPAVI DPVPIYSSVAEAYDSGTGEGTPT PGLRHHVESGSLRATAQLRPPER RV/QQRTTAPPPRQPPRRPLRAS LSAAPPEPREPVVAAGPEPGSL QRPARTALPNRPEPQAASPGTL VEKYAAPVATQDLLDENPCTS RLGVVDLQAVLTLRKLENLRS GAQTPLEGGQSGRVPHALRW NRGEEEGERLLC
22861	53229	A	22993	307	1906	
22862	53230	A	22994	1	1752	
22863	53231	A	22995	588	704	

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22864	53232	A	22996	3219	3407	DQVVVTKRIQDAILVLV*EFL HSPALRLCVMKQVGMSSQGELE WGQFLKLSSRNKRKRSGERI
22865	53233	A	22997	1	588	
22866	53234	A	22998	1	917	
22867	53235	A	22999	1	1692	
22868	53236	A	23000	1	2266	MKRIRDYYERSHANNLDNLEE MDELLETHNL.PGLNHEETENLN KPTITSLPLAGVSSTKKNTKNE LSIVLPFTGSILPVGFATRPRGL ASSNPILLHMFVFLFANGTEEL PVPLMTPTROKKVIPLIPLMVG LGVSASTIALGTGITGISTSVTTF RSLSNDFSASITDISQTLVLAQ LVDSSAAVVLQQLRGLDLLT AEKGGLCIFLNEECFYLNQSG LVYDNIKKLKDRAQKLANQAR QNLDMLHGTGMKSDSDQKKS ENGVTLAPEDTLPLKCYCSGH CPDDAINNTCITNGHCAIIEED DQGETTLASGCMKYEGSDFQC KDSPKAHVRRTEICCRTNLNCQ YLQPTLPPVIGVFPFDGSIRWL LLISMAVCIIAMIISSSCFCYKH YCKSISSRRRYNRDLEQDEAFIP VGESLKDLDQSSQSSGSGGLPL LVQRTIAKQIQMVROVGKGRY GEVWMGKWRGEKVAVKVFFT TEASWFRTEIYQTVLMRHN ILGFIAADIKGTGSWTQLYLITD YHENGSLYDFLKCATLDTRALL KLAYSAAACGLCHLHTEIYGTQG KPAIAHRDLKSKNLIKKNGCC IADLGLAVKFNISDTNEVDVPL NTRVGTKRYMAPEVLDES LNK NHFPYIMADIYSFGLIIEWEMA RRCITGGIVEEYQLPYYNMVPS DPSYEDMREVVCVKLRPIVSN
22869	53237	A	23001	68	636	GVTSNPKALLGALIAPAFASLPE GRGKRIQALNMFPRKNSWRLG LKYPSSSKEKTQVPKTLISGLPE RKSTTRVGEKLQSAHKMPLSPG LLLLLSFGATATA/APLPLEGGP TGRDSEHMQEAGIRKSSLLTF LAWWWFWTSQASAGPLIGKEA REVARROEGAPPQOSARRDRM PCRNFFWKTSSCK
22870	53238	A	23002	1	144	GIRLPSSADWQKTEAQKRREQL LLDELVALVNRKDALVRDLDA QEQQ

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22871	53239	A	23003	2	667	RWNSSDPDADRTTLNHADHSS KIVQHRLLSRQEELKERARVLL EQARRDAALKAGNKHNTNTAT PFCNRQLSDQQDEERRRQLRER ARQLIAEARSQVGMSELPPYVG EMAAEKLKERSKASGEQNSKL VDLKLKLLLEVQPQVANSPPSSA AQKAVTESSEQDMKSGTEDLR TERLQKTTERFRNPVVFSKDST VRKTQLQSFQSYIENRPEMKRQ RSIQED
22872	53240	A	23004	1	1437	
22873	53241	A	23005	1	2009	MAKPPLYKKGYNQQGVAAIPD VPAAWEAEPSPIPSVPLGRKPN ASQSLLVWCKEVTKNYRGVKI TNFTTSWRNGLSFCAILHHFRP DLIDYKSLNPQDIKENNKKAYD GFASIGISRLLEPSDMVLLAIPD KLTVMTYLYQIRAHFSGQELN VVQIEENSSKSTYKVGNYETDT NSSVDQEKFYAELSDLKREPEL QQPISGAVDFLSQDDSVFVND GVGESESEHQTDDHLSPTAS PYCRRTKSDTEPQKSQSSGRT SGSDDPGICSNSTDSTAQVLLG KKRLLKAETLELSDLYVSDKK KDMSPPFICEETDEQKLQTLDIG SNLEKEKLENSRSLCRRSDPESP IKKTSLSPTSKLGYSYSRDLDA KKKHASLRQTESDPDADRTTL NHADHSSKIVQQDEERRRQLR ERARQLIAEARSQVGMSELPSY GEMAAEKLKERSKASGDENDN IEIDTNEEIPGFVVGGDDELTN LENDLDTPEQNSKLVDLKLKLL LEVQPQVANSPPSSAAQKAVTES SEQDMKSGTEDLRTERLQKTTE RFRNPVVFSKDSTVRKTQLQSF SQYIENRPEMKRQRSIQEDTKK GNEEKAAITETQRKPSEDEKGF KDTSQYVVGELAALENEQKQI DTRAAALVEKRLRYLMDTGQNL

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22874	53242	A	23006	145	3217	LDEYEARLTLANLDDFEEDNED DDENRVNQEEKAAKITEINKL NFLDEAEKDLATVNSNPFDDPD AAELNPFGDDPDEEPITETASPR KTEDSFYNNSYNPFKEVQTPO YLNPFDEPEAFVTIKDSPPQSTK RKNIRPVDMSKYL YADSSKTEE EELDESNPFEKSTPPPNLNVN PVQELETERVKRKAPAPVLS PKTGVLNENTVSAGKDLSTSPK PSPIPSVLRKPNASQSLLVWC KEVTKNYR
22875	53243	A	23007	1	165	RPAAPRHERRPAADHGHHRPEP GRGTGQKACSELPDEACS/GIA IG*SLACSACSVRSRKRQW
22876	53244	B	23008	26	625	
22877	53245	A	23009	325	526	
22878	53246	A	23010	1946	2224	LLQWRHGLNPNINSYNSPILPV QKPKPYRLVQHLCLIQIVLPI HPMVPNPYTLSSIPFTTHYSVL DLKHAFFTIPLYPSSQPLFAFTW TDPDTHQAQITLAVLPQCFIDS PHYFSQAQISSSVTYLGILMK THIGLGAVEQGVVLVGEARAA QEPMEWVGSGMVGCRSRALP RGKAAKARREIERSAVTIVPVL DFNPAFHIIPTTDPDHDCISLIH LFTTFPHISFFVPVPHLEHTWFD GSSTR
22879	53247	A	23011	1	1479	MEENFIRVFVTTTTMLLLIALIK QGELCESFDGKSLDGRDENVVI CFDAAAGLHRACSRGEQQNL GTHYFTWQRLFAEVIKLGGLM KPKARNASSLWKEKTKNGFFS LETPEERQTSDLHKYQLAFRLF FIKYKNPAQFMAHLATTLRHFT ALDPESHNFQNLFSSSHLMHIL SAPRLRLYSRFEVSTVITVPG PDFNPASNIPDTTPDPHDCISLI HLAFTFPYISFFVPVPHDHTWF IDGSSTRPNCHTPAKAGYAIYSS TSIEATALPPSTTSRQAEIALT QALTLAKGLRINIYTD/SHILHH HAYLWA/E/RGFLTMQGSSINA SLIKTLLQAALLPKEAEVIHCKG HQKASDPITQGNAYADKVPSL AHAPTLLAPVLQCPREVAGT EDDNGKAVLEIPSNIRKSAHVP VQTKGWDPNTLLGGWFSNL GGFKTLVGTVIFIGFLLFLPCVI PRIIKAIKLVETTYSRQIIQTILL

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22880	53248	A	23012	854	1777	
22881	53249	A	23013	27	496	
22882	53250	A	23014	117	210	
22883	53251	A	23015	124	414	
22884	53252	A	23016	3	627	
22885	53253	A	23017	1	567	
22886	53254	A	23018	44	551	GGGRRSAPLQLGFMSRQAKDD FLRHVYTSVDPRTHPKGYTEYKV TAQFISKDPEDEVKEVVWKR YSD\FRK\HGD\LAYTHRNLF\RL RLEEFPAFPRAQ\VFGR\VEASV DSRER\KGAEDLLRFTVHIPAL NNSPQLKEFFRGGEVTRPLEVS RDLHLPPPLIPTPPPG
22887	53255	A	23019	25	488	
22888	53256	C	23020	9	119	
22889	53257	A	23021	52	241	
22890	53258	B	23022	4	402	
22891	53259	A	23023	249	984	GSTMYKMNICNKPNSNKAPEK SVWTAPAQSPGSPSELQGGQRSR RNGWSWPPHPLQIVAWLLYLF FAVIGFGLVPLPHHVVVPAGY AVSLGKRRAGPWNPFVSVAET ILPQCMGAIFAGHLVVHLTAVS IDPADANVRDKSYAGPLPIFNR SQHAHVIEDLHCNLCNVDSVA RSKHCSACNKCVCVGFDDHCKW LNNCVGERNYRLFHSVASALL GVLLV/LGGHICLRGVLCQPH ASAHQPTL
22892	53260	A	23024	2	224	
22893	53261	A	23025	111	1368	QQPSGSGALARGSGLPPRGRL PARSPVQKRKGWPKGKKRNP PRDLAVRVPTTGYMIFLNEQRS QLRATHPDLPTFTEIMKMLAVQ WAQLSQDKKGRKYAGKALGV TPPPSALTVPYALIEPKQLDIQSL PFQPIDLRLKIKDKRQLVPSYLG GMHTVTEGLAGRVLLQQVQ GGAWESAFLTCPWAMAAAAP GPTLTMLQPSISAVGFSQMAMG PHVQGRASKLSIYVNPRLQLST TTAMGDELNDLYCGTSRQLFSS LCNKKEPAAKAAAPLSSPGP PALGHAGHGRQLLERSLTLFH LYELLKYPRASPLWPPRVWM PHSLTCGTFVWPMIMMRFAH VASGLLRPPFNQVFAHLSPAQG RHPGENGIIVLTSRAAVRIRCSS CSRSLTGNLKKILPRTQSTWSL WRKRRDK

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22894	53262	A	23026	2	405	
22895	53263	A	23027	1	391	
22896	53264	A	23028	3	463	
22897	53265	A	23029	74	466	FAFNMPEPAKSAPAPKKGSKK AVTKAQKKGKGRKRKRSEY SVYVYKVLKQVHPDTGISSKA MGIMNSFVNDIFERIAGEASRL AHYNKRSTITSREIQTAVRLLP G\ELAKHAVSEGT\AVTKYHQ
22898	53266	A	23030	168	597	KEETDFLWFCHYCFIMPELAK SAPAPKKGSKKAVTKAQKKG KRRKRSEYSVYVYKVLKQ VHPDTGISSKAMGIMNSFVTF F\ERIAGEASRLAHYNKRSTITS REIQTAVRLLPGELAKHA\VSE GTNA\VTKYTSSK
22899	53267	A	23031	18	321	FTATWLNQEVGIVGKYRTRYG VSLQKMKVIEISQYAKYICF WQNSKMKRAVGIWCCG/SCM KTVKSSSRNHIVWTYNTTSAV TVKSTIRLKLKQDQ
22900	53268	A	23032	12	445	FTCRSHVSEVEERCVEAPLLG SRSTGFSLHKSQAKRTKKVGIV \GKYGNPLWGP\SLR\KMKVKK\IE ISQHAQVHFALFCGKTKMKRR AVGIWHCGSCMKTV\AGGAWT \YNTTSAVTVKSAIRRLKEFERP SRTLLYSLRSLGL
22901	53269	A	23033	3	175	
22902	53270	C	23034	378	434	
22903	53271	A	23035	1	578	MVRCVRLVEAGSVVRYLSTIC RPVVDAGSRALCLQEWADSQQ VKEKQYSSRDVQRAALNIYRI PPSSRKPALCPTPRDRLEYDEDR LEHIAVVRARELHTEVTGLET VAQSKAHIVASLEGLIPEDKVVL LAGSPLQNEATLGQCGVEALT LEVVGRRLGASL/HTSASKHTM VRALTYCSSREETFTAI
22904	53272	C	23037	236	379	
22905	53273	A	23038	178	534	VVQKTEPLRCFAVSPFSCSLPL PSLFPHSPLLGRPKRQAKPAAD EGFWDCSVCTFRNSAEAFKCSI CDVRKGTSTRYLKICVTWVVV VI*QVFIEHTAICALGVQWYKD RPGPCSYGA

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22906	53274	A	23039	44	1012	VGGGGVQPSMTMGDKKSPTRP KRQAKPAADGFWDCSVCTFR NSAEAFKCSICD\VRKGTSTRKP RINSQLVAQQVAQQYA T P P P P K KEKKEKVEKAGQKRKPEKRPR KFSP/SVVTKKNTNKKTKPKSD\ ILKDPPS\EANSIQSANATTKTSE TNHT\SRPRLEKRG TG G I A Q Q F G QLTVGNVTVIITDFK\EKTRSS\ TSSSTVTS\SAGS\EQQNQRQLR GFRGATDKGSLPVPPNPKGRPC QAVNDESFLKLAHGNCGLWN SGVWKFNLPAAHACLHPWEN LSCGTSTSLVDCQDNFLLCHG HSWPPRDFRHPDDYSGHF
22907	53275	A	23040	1	626	MAGCRNPCKAESHRSKSLSEA ESLFREAESQHDGSGKNAGHR DESVEVWLSLSSSQTRAEIER QSRGKQWL RHLLRDT EGPKET VRPELATRAAMDVAEVEFLAE KELVTIIPNFSLDKSYLIGVDNIP KADEIRTLVKDIWDTRI AKLRV SADSFVRQGEAHAKPDNLTL M EINPSGTFLTQALNHITYK/LRTN LQPESTQSQDF
22908	53276	A	23041	1	951	MDAAEVEFLAEKELVTIIPNFSL DKIYLGITWELKYREIRWLSQG PHGKPHADPGSSILQNSSGPGS VRTNGKSKPWEPV AEEFAHQ FHESVLQSTQKALQKHGGSVA VLSAEQNHKVDTSVHYNIPELQ SSSRAPPQHNGQEPPTARKG PPTQELDRDSEQE Q E E D D E D G E DEEEVPKRKWQGIEAVFEAYQ EHIEERTLERNRSSTAADKAQL LAANRQGHGQPTD PASDNIPKA DEIRTLVKDMWDTRI AKLRV ADSFVRQGEAHAKPDNLTL M EIHTSGITFLTQALNHMYKLRT NLQPLESTQSQDF
22909	53277	A	23042	1	626	MAGCRNPCKAESHRSKSLSEA ESLFREAESQHDGSGKNAGHR DESVEVWLSLSSSQTRAEIER QSRGKQWL RHLLRDT EGPKET VRPELATRAAMDVAEVEFLAE KELVTIIPNFSLDKSYLIGVDNIP KADEIRTLVKDIWDTRI AKLRV SADSFVRQGEAHAKPDNLTL M EINPSGTFLTQALNHITYK/LRTN LQPESTQSQDF



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22910	53278	A	23043	2	642	RPRRLRLDAEGPEETVRLWPAA RAAMDAAEVEFLAEKELVTIIP NFSLDKIY\IGGDLGPFNPGLPV EVPLWLAINLKQRQKCRLLPPE WMDVEKLEKMRDHE\RKKEET TPMPKPF\TTLELT\KLLLNHASD NIPKQDEIRTLVKDMWDTRIAK LRVSADSFVRQGEAHAK\DN LTVLMEIHTSG\TFLTQALNHMY KLRLTNLQPLESTQSQDF
22911	53279	A	23044	3	1038	TSSMAAGCSEAPRPAAG\SDGS LVGQAGVLPCELEPTYAAACA LVNSRYSCLVAGPHQRHIALSP RYLNRRKTGIREQLDAELLRYS ESLLGVPIAYDNKVVGELGDIY DDQGH\HLNIEADVFIFCPEPGQ KLMGIVNVYSSSHIGCLVHGCF NASIPKPE\QLSAEQWQTMEIN MGDELEFEVFRLLSDAAGVFCI RGKLNITS\QFKRSEVSEEVTE GTEEAACKPKKKKKKDPETY EVDSGTTKLADDA\DDTPMEES ALQNTNNANGIWEEEPKKKKK KKKH\QEVSR\TQDPCFSQQQLT S\SGYQSDHKKKKKKRKHSEEA EFTPPLKCKSPKRKGKSNFL
22912	53280	B	23045	82	323	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 59/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
22913	53281	A	23046	3	1624	QLEIRAPTADEIHVTVGAEARNLI PMDPNGLSDPYVKLKLIPDRN LTKQKTRTVKATLNPVWNETF VFNLKPGDVERRLSVEVWDWD RTSRNDFMGAMSGVSGSELLKA PVDGWYKLLNQEEGEYYNVPV ADADNCSLLQKFACNYPLEL YERVRMGPSPPSPSPPTDPK RCFFGASPGRLHISDFSFLMVLG KGSFGKVMLEARRGSDELYAI KILKKDVIVQDDVDCTLVEKR VLALGGRGPGGRPHFLTQLHST FQTPDRLYFVMEYVTGGDLMY HIQQLGKFKEPHAAFYAAEIAI GLFFLHNQGHYRDLKLDNVML DAEGHIKITDFGMCKENVFPGT TTRTFCGTPDYIAPEIIAYQPYG KSDVWWSFGVLLYEMLAGQPP FDGEDEEELFQAIMEQTVTPK SLSREA VAICKGFLTKEHGEAP GASGP*WGNLTIRAHGFFPLGF DWERLERLEIPASFRRPCCGRS GENFDKFFTRAAPALTPPDRLV LASIDQADFQGFITYVNPDFVHP DARSPTSPVPVPM
22914	53282	A	23047	1	1522	MLRAPRQATRDRHHFAHIDIVQV TCFRYLRRSALAPAPAMPSPVR VDRGSFPVPVAGGNHTRRRGGTP QEGVTREALAFFDVVATTGAE MMWSNFFLQEENRRRGAAGR RAHGQGRSGLTPEREKVKLA LLLAAWAPRWRCPPWAPSSG WTQHLQGRQRRVRSQPTWG CGRRAPSGCGRRTCPWTGTPA APRSCPEASERNSEHPALICTLP QPHMLKRRARRAPGSMAPPLP RPPQAASVPVFPDPWEPLSRA RSKSPLHSQHRPAQETGRHSRP RTSTRKQKQKSTEKATHTPER APKPQTRENNPKGRAQGSAPR DHNPA SRHQKTSNDKRSTHDT HKTRKDSQTRKKKTRNNEKQK PDR/IGPQIIAYQP/YGKSDVWW SFGVLLYE/MLAGQPP/FDGEDE EELFQAIMEQ/TVTPKSLSREA VAIC/KGCGRSGENFDK/FFTRA APALTPPDRLV/LASIDQADFQ FTYVNP/DFVHPDARSPTSPVPV PASSPTRPQLLENKFGC

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22915	53283	A	23048	505	2345	SIWGMVMMNPTSSITLRRMM SLFPASLTTKYGGFYINSGTLQF RQASESEDDFIKEKKKKSPKRR KLKEGGKIKKKKKDDTYDKE KKSCKSKFSKAGFTALNASKEK KKKKYSGALSVKEMLKKFQKE KEAQKKREEEHKPVAVPSAEA QGLRELEGASDPLL.SLFGSTSD NDLLQAATAAMDSLTDLDLEHL LSESPGSPFRDMDGSDSLGV GLDQEFRRQPSLPEGLPAPLEKR VKELAQAAARAAGESRQKFFT QDINGILLDIEAQRELSSQVRS GVYAYLASFLPCSKDALLKRA RKLHL.YEQGRLKEPLQKLKE AIGRAMPEQMAKYQDECQAHT QAKVAKMLEEEKDKEQRDRIC SDEEEDKEGGRRIMGPRKKFQ WNDEIRELLCQVVKIKLESQDL ERNKKAQ\A\WEDCVKGLDAE VKPLWPRGWMQARTLFKESRR GHGHLTILAKKKVMAPSKIKV KESSTKPKKKVSVPSQIGGP LPSDHQTGGLSIGASSRELPSQA SGGLANPPPVLNLESDLEDLIR NPASSVEAVSKELAAALNSRAAG NSEFTLPAPSKAPAEKVGGLVC TEEKRNFAKPSPSAPPPASSLQS
22916	53284	A	23049	1	379	AYRNFTSASDVWSYGIVMWVEV MSYGERPYWDMSNQD\PN TAL LDPASPEFSAVVSVDWLQAIK MDRYKDNFTAAGYTTLLEAVVH VNQEDLARIGITAITHQNKLSS VQAMRTQMQQMHGRMPV
22917	53285	A	23050	1	123	
22918	53286	A	23051	3	221	
22919	53287	C	23052	80	379	
22920	53288	A	23053	71	924	AFSVNSSNSWEKA*SQKCLQV NYLSLSSASYLP/CMTCPPSAPL NLISNVNETSVNLEWSSPQNTG GRQDISYVNVCKKCGAGDPSK CRPCGSGVHYTPQQNGLKTTK VSITDLLAHTNNTFEIWA VNGV SKYNPNPDQSVSVTTTNQAAP SSIALVQAKEVTRYSV ALAWLE PDRPNGVILEYEVKYYEKDQNE RSYRIVRTAARNIDIKGLNPLTS YVFHVRARTAAGYGDFSEPLE VTTNTGNKDHDPSTSEAFIIQ LNPI TVKSKELSVIFGSADILLQ

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22921	53289	A	23054	1	1102	MRWLKKWERKYTYLYSSGVLK HKNLLESLLGQFLGPPAQRFD AGGVRPKNDGRFTVIQLVGM RGIGSGMKYLSDMSYVHRDLA ARNILVNSNLVCKVSDFGMSR VLEDDPEAAAYTTRGGKIPRW APEAIA YRKFTSA/SDVWSYG V MWE/VMSYGERPYWDMNSQD VKAIEEGYRLPPPMDCPIALHQ LMLDCWQKERSDRPKFGQIVN MLDKLIRNPNSLKRTGTESSRP NTALLDPSSPEFSAVVSVGDWL QAIKMDRYKDNFTAAGYTTLE AVVHVNQ/EVSTQRCNTKGDL ARIGITAITHQNKILSVQAMR TQMQQ/MHGRMVPRLSTVLNK LKTLEISLPHPCTLIEELHFFNFV
22922	53290	A	23055	148	3229	NAFRFHLLNPAGESHDLQDLL SAVRSPTRKQQRWHRRTMAG IFYFALFSCFLGICDAVTGSRVY PANEVTLDSRSVQGELGWIAS PLEGGWEEVSIMDEKNTPIRTY QVCNVMEPSQNNWLRTDWITR EGAQRVYIEIKFTLRDCNSLPG VMGTCKETFNLYYESDNDKE RFIRENQFVKIDTIAADESFTQV DIGDRIMKLNTEIRDVGPLSKK GFYLAQDVGACIALVSVRVFY KKCLPTVRNLAQFP
22923	53291	A	23056	57	450	VGDCLTSRGMWSVQATLLAR/ ALCRAWGGT/CRGALTGTISIQ VPLAPRGLHCSA/ASVSSEQS LVPSPEPRQR/PPGGERDKASF LQTVQKFADTSVVD SGHIDFIY LALRKMREYGVVERDLAVYNQL LNIFP

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22924	53292	A	23057	89	1502	VGDCLTSRGMSVWQATLLARG LCRAWGGTCGAAL/SQEPPLSR SLASLPRGLHCSAAHSSEQVL VPSPPPEPRQEGPPRLVPFEGPV LGQGAGLGERGQGRAFL/LDGC RNLRTTSVRKRGPII/VDLFYLA LRKMREYGVVERG/DLAVYNQL LNIFPKVFPRNIIQRFVHYPR QQECGLAVLEQMHGVMMPNK ETEFLLIQIFGRKSYPMCLKVRL KLWFPFRMNVNPFVPRDLPQD PVELAMFGLRHMEPDLASARVTI YQVPLPKDSTGASKIPPKPHIVG HRACMSPHQESKKSRSSKAAL ARHNPSIRPVFVEGPFSLWLRN K\CVYYHILRA\DLLPPEEGK WKRTPEEWELYYPRQLDLEY VRSWWDNYEFDINEVEEGPVF AMCMAGAHQVATM/VKWKQ GPAGDQFQTLAQNPWSPFRLRR VQPGELPDILLQGWSP/HPAR GPPRKKTTTCKRQQQGPPELV
22925	53293	A	23058	1	2517	
22926	53294	A	23059	1	927	IIVVEFVSRGLARAPSGPAVFSH LAMARLPLRGVVRWGCLLTAVH PEPPTACREKQYLINSQCCSLCQ PGQKLVSDCTEFTETECLPCGE SEFLDTWNRETHCHQHKYCDP NLGLRVQQKGTSETDTICTCEE GWHCTSEACESVLHRSCSPGF GVKQIATGVSDTICEPCPVGFSS NVSSAFEKCHPWTSCETKDL/V VQQAGTNKTDVVGCPQDRLLA L/VVPIIFGILFAIL/VLVIKKV AKKPTNKAPHPK/Q/EPQEIFP DDLPG/SSNTAAPVAGRIFTWG GQPV/TQEDGQRESHFSCRERQ
22927	53295	B	23060	24	439	
22928	53296	A	23061	1	582	
22929	53297	C	23062	1	2607	
22930	53298	A	23063	248	430	ATNYTREQDSMWNVCVR*GRIT ATTHSVTQRTDERQRRADTAL TLADYRNTSVTGVFAGLF
22931	53299	A	23064	776	1426	
22932	53300	A	23065	284	598	VFRLLRGQKSEPGKSRPKAL*N KPANTPVQSHISLYAAGIINSDS KVR*SCRQSSARQSGSYL*TS SPONRQQTGEITATVIAFGRTTR TAPDITPHPASAR
22933	53301	A	23066	3139	3792	

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22934	53302	A	23067	2	830	GVPNMAAPQDVHVRICNQEIV KFDLEV KALIQDIRDCSGPLSAL TELNTKVKEKFQQLRHRIQPVL YQRAFIWTASTFFFKLTYSLTDF SSTQHD FNSPTTPVTFSDL EQL AKEQDKESENQLLLQEVENHK KQMLSNQASWRKANLTCKIAI DNLEKAELLQGGDLLRQRKTT KESLAQTSSITTESLMGSRMM AQVQVQSEAMQSLVTSSRTIL DANEEFKSMGSIQLGRKLITK YNRRELTDKLLIFLALRLFLAT VLYIVKKRLFPFL
22935	53303	A	23068	1231	1458	
22936	53304	B	23069	1	2133	
22937	53305	A	23070	722	957	VFRLLRGQKSEPGQKQAKSTLE QTSEYPSNRGIPIRQSECSIRTP PFVRLRD*VRGCGCAPLSSVD SFFCCTEAL
22938	53306	A	23071	2	1137	VPNMAAPQDVHVRICNQEIVKF DLVEKAPIQDIRDCSGPLSAL TELNPVKVEKFQQLRHRTGP/ VEQLAKEQDKSEKQLLLQIEV ENHKKQMLQQFRPSWEGKLN SSPGKICNSDNLEKAELLQGGD LLRQRKTTKESLAQTSSITTES LMG/ISGRMMAQVQVQSEAM QSLVTSSRTILDANEEFKSMGSI QLGRKLITKYNRRELTDKLLIF LALALFLATVLYIVKKRLFPFI VRFPKVPVLAPFNSLFGICPWF PEAPRLPKAEHTPLRFAPQLP CRLGWEHQCPPLFLQSSWLVK GEQSPWEEGPGIGMPPLGTYP PPSHHCALWEAAA WSTLKSE PPRTRMPLSPAPIVPLNARSGG GKREER
22939	53307	A	23072	64	665	RVRGGAEALMAAAEEESGAP NVPNRERGAGRPKTPFECNIC LETAREAVSVCGHLYCWPL HQWLETRPERQECPCVCKAGIS REKVVPLYGRGSQEAIRPELK TPPPPPRGQR/PAPESRGGFQPF GDTGGFHF/SFGVGAFFPGFFT TVFNAHEPFRRGTGVDLG/QG HPSLQLGKEFPLPGSAIFLFW

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22940	53308	A	23073	1	416	MQRRRRRLRL.L.PRRQTDRAL PPPPSPGSMPPPLPPP/PPARGG GLRPGDGLYPK/PSPARRGSGA RTSWCTMCAPPSTAPRASRRP RPSSCATRPPTSKPPPA/GHAPH PPPRDLGGGLDSGVQSDGVQLQ HLQRPGH
22941	53309	A	23074	1	1713	
22942	53310	A	23075	1305	1538	LKVKRNTSS*SPTIGHD*QSNL SLPPSDFAKPPFPFSLRLCSKFR KLKAAAYRKRKKGHKSSLSLV KINKTAAANK
22943	53311	A	23076	49	355	
22944	53312	B	23077	253	471	
22945	53313	A	23078	1267	1497	LKVKRNTSS*SPTIGHD*QSNL SLPPSDFAKPPFPFSLRLCSKFR KLKAAAYRKRKKGHKSSLSLV KINKTAAANK
22946	53314	A	23079	3	1237	HEVAGAVPGAIMDEYYGSAA EWGDEADGGQEDDSGEED DAEVQQECLHKFSTRDYIMEPS IFNTLKRYFQAGGSPENVQLLS ENYTAVAQAVNLLAEWLIQT GVEPVQVQDTVEYHLKSLLIK FDPRIADSMFTTEGETPAWLEQ MIAHTTWRDLFYKLAEAHPDC LMLNFTVKLISDAGYQGEITSV STACQCLEVFSRVLRTSLATILD GGEENLEKNLPEFAKMOVCHGE HTYLFAQAMMSVLAQEEQGGG AVRRIDQEVQRFQAEKTVLTQE AIITVKGVSLSYLEGLMASTIS SNASKTIVAAMSNLVPPELAN PENQFRVDYILSVMNVPDFDFP PEFYEHAKALWEDEGVACYE RSNEYQLIDCAQYIFVLEMQVP CEEAAQSHPGQHGGVQVGRN
22947	53315	A	23080	1358	1589	LKVKRNTSS*SPTIGHD*QSNL SLPPSDFAKPPFPFSLRLCSKFR KLKAAAYRKRKKGHKSSLSLV KINKTAAANK
22948	53316	A	23081	33	458	GITGSDASGVTMKFNPFVSD RRKNRKRHVNPASHVRRKIMS SPLSKELRQKYNVRSMPIRKDD EVQVVRGHYKGGQIGKVVHV YRKKYVIYIERVQREKANG/DK DRKKILERKAKSRQVGKEGK YKEELIGKMQEYIEP
22949	53317	A	23082	1	576	
22950	53318	B	23083	37	276	

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22951	53319	A	23084	124	549	NNSLSSPVQADVFFRLIVPFCG HIKGGMRPGKKVGVGMGIVDLN PKSFAINLTCGDSPPADGAIE LKAVFTDRQLLRNSCISGERGE EQVSNPLL SIHSTTMPFRVEILC EHMCFRIVFVDGHLDFYIIPH SNRYLAI
22952	53320	A	23085	1	215	QGFIKPLKEENFTLPPGKFGP PKGSLNSPPS/PSSP*SPGGGILL VYYLYRALFQKGCKEAAWLEY PLT
22953	53321	A	23086	533	983	PWGPGCNKRWPCLAKDPPTP QSSGVGQPFGAEPAGAYIRTG PHLGPPPPPPDSSNLHSPNPS DDGADTPLAQSDDEEERGDGG AEP/GVAASSGPLAYRPDPAGY SPTSRPPGPSPEPLG/AEDPDSLL ASRAPRGNGWWDGCTLS
22954	53322	A	23087	1422	1670	NRVIDKTGWAWWLTPIRHF RPRWVDCLRLGVREQPGHSKI KSLQKNAKISQAWWHPVDP ATWKADAGGSLEPGSLRLQ
22955	53323	A	23088	2	663	VLI.DERSAALDGAKRDGTAL AAGALCREARAAQVFFLKGGY EAFSASCPELCSKQ/INVSANCP NHFEHGYQYKSLCGMTTHKA DISSWFNEAIDFIDSIKAGGRV FVHCQAGISRSATICLAYLMRT NRVKLDEAFEFVKQRRSIISPNF SFMGQLQLLESQVLAPHCSAEA GSPAMAVLDRGTSTTTVFNFV SIPDHSTNSALSYLQSLITSSHC
22956	53324	A	23089	3	206	



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22957	53325	A	23090	982	2252	LFLEKRRPALGPENRQRAPOGR STLGALRPAMVMEVGTLDAG GLRALDLGERAAQLPACLDCRS FFAFNAGHIAGSVNVRFTIVR\ RRAKGAIGALEHIVPNAELRG RLLAGAYHAVVLLDERSAGLD GAKRDGTLALAAGRA/LCREA RAAQVFF/LSKGGYEA/FSASCP\ ELCSKQSTPMGLSVLSLSTSVPD SAESGCSSCSTP\LYDQGGPVE ILPFLYLGSAYHASRKD/MLDA LGHRLPWINVLSQIVPNHFEGH \YQYKSIPIVEDNHHKADISFWFN\ EAIDFIDSINKAGGRV/FVHCQA GISRSAT\CLAYLMRTNRVKLD EA\FEFVKQRRSISPNFQLHGA SLLQFEFPRMLGPALFRAEAGK PRQMAVL\DRGTSTTTVFNFVP SIPVHSTNSALSVPFRAPLTDLS QLVERPTGR
22958	53326	A	23091	13	287	
22959	53327	A	23092	1	492	
22960	53328	A	23093	1	636	
22961	53329	A	23094	1	506	PTRTWTRGRIPRLSAQPSRGAR GTMADPRVRQIKIKTG/VVKRL V\KEKVL\YEKEPKQ\QEEKIEKM RAEDGENYDIKKQAEIL\QES\R MMIPD/CQRR\LEAAAYLDLQRI LENEKDL/EKEAEYKEAR/LVL DSVKLESKLF\SYGVVFALKPR GPILQSIIFDHVLCVQV
22962	53330	A	23095	1	786	
22963	53331	A	23096	183	1059	VLGAFIWQGLDPSPETAFDTHR ATEWGTNDQSLCLNSP*\DAPS AKHEYQASVSGSVSSKPEIDLQ LYDEVDRQDVPVKRNFARIVV NVSDTNDHAPWFTASSYKGRV YESAAVGSVVLQVTALDKDKG KNAEVL\YSIESGSHPPYKTAAD VLLKAPPPGWRPTNTKPVHSTE AQPTQNRQTQQKHNGASRSP RHSFATSTRAGAGICGCKTRRW MTRWMEESRGLQTLPLSTRLEP GSSAAWLDPEEQASQLQSSQE APFLGEGGENHIKGVPHGTKE QQQPLNHRSSL
22964	53332	A	23097	1	1224	
22965	53333	A	23098	1	660	

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22966	53334	A	23099	129	595	LFPRLLSCLTTPPHCSFSICFVIC SRTLILKGSSLMYVFLCPNTAIV MALSPRGWRSKFGMPWHSKPT WIMTL*FPLEKTGALSLTSDTS MFTVVVLTLGGPLSEA*/T/GG NYDSHFDVDKGTGTIIIVAKPLD AEQKSNYNLTVEATDGTITILT
22967	53335	A	23100	1	1782	MAARIEVIHELIRLLLMKTDL DAATAALLNVQPAKSGDNTSG APFPGKISQTLKDPHNGYHV FALAGSPKADDDTSIYMFYQK VGDNSIDSWKNAGRKFKDSK FDANDPILKDQTQEWSGSATFT SDGKIRLFYTDYSGKHGKQSL TTAQVNVSKSDDTLKINGVED HKTIFDGDGKTYQNVQQFIDEG NYTSGDNHTLRDPHYVEDKGH KYLVEANTGTENGYQGEESLF NKAYYGGGTNFFRKESQKLQ SAKKRDAELANGALGIIELNND YTFEKSNEAADHFKHGGGATIK GRVADNGKPOLSSLTIDIRVIE ESIYPPAILPLEIFITASGEEYS GGVIGKIHATDQDVYDTLTYS LDPQMDNFLSVSSSTGGKLI AHKKLDIGQYLLNVSVTDGKFTT VADITVHIRQVTQEMLNHTIAIR FANLTPPEFVG DYWRNFQRALR NILGVRNRNDIQIVSLQSSEPH PLDVLLFVEKPGSAQISTKQLL HKINSVTDIEEIIIGVRILNVF QKLCAGLDCPWKFCDEKVSVD ESVMSTHSTARLSFVTPRHHR AARQQIRGPPLHNPADT*TTAR KYNCDKR
22968	53336	A	23101	184	13958	AMGRHLALLLLLLLFQHF GDS DGSQRLEQTPLQFTHLE YNVTVQENSAAKTYVGH PVKMGVYITHPAWEVRYKIV SGDSENLFKAEYILGD FCFLRRTKGGNTAILN REVKDHYTLIVKALEKNTN VEARTKVRVQVLDNDRPL FSPTSYSVSLPENTAIRTSI ARVSATDADIGTNGEFYYS FKDRDTDMFAIHPTSGVIV LTGRLDYLETKLYEMEIL AADRGMKLYGSSSGISSMA KLTVHIEQANECA
22969	53337	C	23102	56	331	

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22970	53338	A	23103	2249	2680	GEFLKTRFSIYFLEKYTTFPGE NLEHGFWDSSSTSPVLLHPGIPA SRJ/PVSSIFTKVPKKKSATKP/PV SIWGAPPLGPPGFWGCCPTGEQ RGVCHPSEPHPPVVDFRKKPPF LCVSLSLINIFKSNKFLLTTCNL VIFYTCSL
22971	53339	A	23104	739	1672	CQEAASEFGGLHTPAMFLRRL GGWLPWPWGRKKPMRPDPPYP EPRRDSSSENSGSDWDSAPET MEDVGHPKTKDSGALRVSRRA SEPSKEEPQVEQLGSKRMDSLK WDQPISSSTQESGRLEAGGASPK LRWDHYDSGGTRRPPVSPGG LGVPGPGAPLEKPGRRKLLG WLRGEPGAPSRVYLGGP EEC LQI STNLT LHLLELLASALLALCSR LRAALDTLGRGPLGLWLHGL LSFLAALHGLHAVLSLLTAHPL HFACLFGLLQALVLA VSLREP N GDEAATDWESEGLERE GEEQR GDPGKGL

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22972	53340	A	23105	122	2437	RLELKLPLWTMRFTMEMLLGH LSIFKITGKQKQLTRTAPGSPGQ LRSNQTTGNSLEPSGQPRSSQTT GNSLEPSGQPRSSQTTGNSLEPS GQPRSSQTTGNSLEPSGQPRSSQ TTGNSLEPSGQPRSSQTTGNSLE PSGQPRSSQTTGDSLEPSGQLRS NQTTGDSVQPNNREQPGTVRS APLQPNNREQPGTVRSAPLQPN NRGQRPTKQGGTTWNRQVSSA PTKQGGTAR/PSGQPRSNQTTG NSLEPSSQLRSNQTTGDSVQPN NREQPGTVRSAPLQPNNRGQR TKQGGTAR/PSGQPCSNQTTGN SLEPSSQLRSNQTTGDSVQPN REQPGTIRSAPLQPNNRGQRWD RQVSSAPTKQGTALGSPGSSAP TKQGGTALPSSQLRSNQTTGN SLEPSGQPRSNQTTGNSREPSQ LCSNQTTIGNSQDRQVSSAP/IQ TGNSQDRQVSPAPTKQGGTAG NRQVSS/PIQTGNSVQPNNREQ PGTVSGAM/VWVATPVKGP VETSAHKVSAAGLPKKKT/QPG VTGGAPRLTLNTLVLPKHSRTPS RHEAGSTQALYHNGQAQYALS FPHEAAPMAAFYVVTGIEVTTA LTLEEAPCTVEITALTLEEPPC TVFWNKTERNTRTLVQDKGSN TKGFVQATCCFRADCKASRPS PHPPSPHREWTSDLRHKQVSKF PGAHLRPGHPELPIQEAWRGE
22973	53341	A	23106	605	813	LFVFINFRENALLRWAYAR/IT NVYPNFRPTPKNSMLMGALCGF GPLIFIYYIITKTERVSIQTRCLVF
22974	53342	A	23108	273	936	AYSNKPVSWNQKA/PSPTKPA GLIFDFPAVKTVRNKVFVFINYP VSGYTEDLKKFLKPYTLEEQKN LTVCPDGALEFQKGPVYVACQ SPISLLQACRGMNDLDFGYSQR NPCILVKMNRIGLKGSEGVPRID CVSKNEDIPNVAVYPHNGIIDL KYFPYYGEKLHVGYLQPLVAV QVSFAPNDTGKEVTECKIDGS ANLKSQDDRDKFLGRVMFKIT
22975	53343	A	23109	104	478	ETEVGGLVEASMSHNCTTALQ PGQHSQKENLQNKPIPREKY* VSIEFELIYFF/YCQVGYLQPL VAVQVSFAPNNTGKEVTECKI IDGSANLKSQDDRDKFLGRV MFQNHSTVHMSRSVSSTE

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22976	53344	A	23110	3	903	LLSPVRAHTMTKNEKSLNQSL AE\WKLFIYNPTTGFLGRTAAS WGLILLFYL VFYGFLLAALFSFT MWVMLQTLNDEVKPYRDQIPS PGLMVFPK\VTALEYTFSRSDP TSYAGYIEDLKKFLKPYTLEEQ KNLTVICPDG\ALFEQKGPVYV ACQFP\ISLLQACSGMNDPDFG YSQGNPCILVKLNRIJGLKPEG VPRIDLCFKRMKDIPNVAVYS HNGMIDLKYPYYGKKTAMF/ VGIIYQPIGLLVQVSFAP*QPLGK EVTVE/CAKIDGSSQPKKVQDD\ RDKVFGDEFMFQIHSTVH
22977	53345	A	23111	467	931	SRDSRRGTPLAGGRGRDFAGQ MGHRVQGRHGSRGRLPSGDAR VNAERAEPVGAGAGGPGGGSS VRGFCGRSWSEA/RGRRRAGG GVHNEP\RYRQFP\QLTQIPRCSQ SEFVSGLMWFWIF\WRFWHD K\KVLGHFPV\YPDPSQWTD\EE L/GIPDD
22978	53346	A	23112	1	390	VTIPTSLAELQGLPHIRVFLDNN PWVCDCHMADMVTWLKETEV VQKDRLTCAYPEKMRNRVLL ELNSADLDCDPIPPSLQTSYVF LGIG*ALIGAIFLHYRNNGPLTIS SEGGLASLLCKDSRGVPLL

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22979	53347	A	23113	3	1653	PQRIQRGVPTRGEEVAPGRRQE EEREQERGAERPDPCCVLSGGK GRGNRPLREAPGGEGVSQVPA AAPLPRFHERKVFFQTLPAPAR ALRAQPEPSEAPSPQSSGETR AAMPGGCSRGAAGDGRRLRLA RLALVLGVVSSSPTSSASSFS SSAPFLASAVSAQPPLPDQCPAL /CACRSEAAARTVKCVNRNLTE VPTDLPAYVRNLFLTGNQLAVL PAGAFARRPPLAELALNLSGS RLDEVIRAGAFEHLPSLRQLDLS HNPLADLSPFAFGSNASVSAPS PLVELLNHIVPPEDERQNRSE GMVVAALLAGRALQGLRRLEL ASNHFLYLPRDVLALPLSRHL DLSNNSLVSLTYVSFRNLTHLE SLHLEDNALKVLHNGTLAEIQ GLPHIRVFLDNNPWVCDCHMA DMVTWLKETEVVQGDRLTC AYPEKMRNRVLLELSADLDC DPILPPSLQTSYVFLGIVLALIGA IFLLVLYLNRKGKKWMHNIRD ACRDHMEGYHYRYEINADPRL TNLSNSGCLLEELEDPRPTTLH
22980	53348	A	23114	288	877	ASRLSLPTRTSMRSSSTSPSSSS SSSLCRFLNLNRVTDAAFNLL VWYYCTLTIRESLINNSRWG RAGPEGGEHGMGCQGPSKGR EQGAGG*WVVFCSRVKGGW VFHHYVSTFLSGVMLTWPDGL MYQKFRNQFLFSMYQSFVQF LQYYYQSGCLYRLRALGERHT MDLTVGESGVALASGHSFPLPS

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22981	53349	A	23115	1	1273	MAPLHSILGNRVGLCQASVRA CPGATVSSQCRASLRSLAWRG SELPANRGRTWPGPGGLRLQA APRLAYLGRATLLVLTPLYDLP PNVRFTSMSPASPHYFLVLGAPI FLLLRSTWSYYHACRFEYATPN DRNTTYLAISGPTRRTYDVATF AYKDEYEKFKLYLTIILISFTC RFLNSRVTDAAFNFLVWYY CTLTIRESILINNGSRPDGLMYQ KFRNQFLSFSMYQSFVQFLQY YYQSGCLYRLRALGERHTMD LTVEGFQSWMWVRGLTFLLPFL FLW/YNSGQFLNALTLFKPGPR DPQLQGVGRCLCCGPFLL/LFL GNFFTTLRVVHKKFHSQRHGS KKDLRLGLSPCRPRGRFLVPVC FWEQDWEQAPSSVRVSSGLFY SPLGFMGRGCGKEDPGPSCPQ
22982	53350	A	23116	238	398	
22983	53351	A	23117	1	386	
22984	53352	A	23118	13	580	
22985	53353	B	23119	39	1171	
22986	53354	A	23120	381	795	PPSSKAPSSKGPAAKIVCIYALI LQSNVETITDKFNLIKAAAAY TVEPFWPSFFAKALASVNISSL CNAGVG/SMAPAACTAQAGGP ATSTTAASAFRNHNPRJAPKFR GVLAHEQYLSERATVWVWAPNP NPKSLF
22987	53355	A	23121	1	960	
22988	53356	A	23122	2	3952	
22989	53357	A	23123	1058	1494	KSVRLVNV/YLRTQKAVVRVSP EVPLQNLIPVICAKEVSPHVV LLRDNIAGELELSKSLNELGIK ELYAWDNRRVPSAVPMQGPWP AEHFLQVNEQPPAGSPSPCSSS SSSSGLRGGMQTANGPACALTP TCAQTDCCPTSH
22990	53358	A	23124	195	398	TDSSSALQPQHRGRPALRQRT PRRSP/SPGLSPPRGASPAS/SGA PARGVAFGGDEPPIGAEAMYSK P
22991	53359	A	23125	2	155	
22992	53360	A	23126	1	339	

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22993	53361	A	23127	150	1017	LGRWRQDQVPHGLECRSQSEW SCTDSRQHSYSDSRREQIGK MRYVSVRDFKGVLDIREYW MDLKRLPRKPRTEAGSGSLSS PGADTPVEAAVTVRLGLGSVD VGSFRAWQRGKSAAVGHTVSP RWPRWQGGSSALSMASLSTL TCSWGLRYSALPTTSAQREEG SALYRHLSPPSLRFPYPTVKWAT LAITRPPAPRSHSHHPQPRAL CPVVVLFQHPKTHGENLGDRW KEGSAVSSKGTGPAKLSSGRIR NALQNTLGEVSVARIQTHRGIF VETTEARL
22994	53362	A	23128	1	584	APIECGGIPSLPVLCSRANDQE GVRLLPESEAMPKSELVSSSS GSDSDSEVDKLLKRKASLL/P ENPVKKQKTGETSIRALSSF*TE PASSRDDNMFQIGKMYRVSV\ RDFKGKSA*FDIREYWMDEGE MKPERKGISLNPQQWEP SLKE QISGPLIDASKKTCKISEPILIKPC TVPVVLICLVTVAVCF
22995	53363	A	23129	186	687	LLWARGLGRAKSAVPTVSTML GLPWKGGLSWALLLLLSQIL LIYAWHFHEQRDCDEHNVMAR YLPATVEFAVHTFNQSKSDYY AYRLGHIFNSWKEQVESKTV\F SMELLGRTRVWEYLKTTIDNC HFQESTELNNTFTCFITSTRPW MTQFSLNKTCLGFGH
22996	53364	A	23130	232	402	LFKAWECCFLIFLQVVITRLKLD KDRKKILERKAKSRQVGEKKG KYKEETIEKMQE
22997	53365	A	23131	637	758	NVEEKNRKKILERKAKSCQNK KEKGEYKEETIGTMRECGL



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22998	53366	A	23132	1	1095	IVFLLYLETCLFVMDCKPNEA LSDSSERLFSFGVIADVQFADLE DGFNFQGTRRYYRHSLLHLQ GAIEDWNNSSMPCCVLQLGDI IDGYNAQYNASKKSLVLVWQ FKRRKGPVHHTWGNHEFYNFS REYLTHSKLNTKFLEDQIVHHP ETMPSEDYYAYHFVPFKFWFI LLDAYDLS/ALGAWDQSSPKY GSVWKILEGSHNPINTGNWNSS SRDFSEA/RSLFQFNGRVSQAQEQ LNWLNEVLTFSDTNQEKVVIVS HLPALYPGPPFNDVCLAWNYRD ALAVIWSHECVGVSLGHGTHD GGYSEDPPGVYHG/NLEGVIET APDSQRFQGTVHVYPDKMMLKG RGRVPDRIELQKKEPSHC
22999	53367	C	23133	235	382	
23000	53368	B	23134	63	293	
23001	53369	A	23135	160	330	
23002	53370	B	23136	1	870	
23003	53371	A	23137	2	1013	
23004	53372	A	23138	1	1552	
23005	53373	B	23139	120	1034	
23006	53374	A	23140	1	584	RTRGRSLAFLLLAERGA VLWSGCRFRARLGLPGGLR VLVQTGHRSLTSCIDPSMGLNE EQKEFQNAAFDFAAREMAPNM AEWDQKELFPVDVMRKAQQL GFGGVYIQTDVGGSGHVRDLD SVIFEALATGCTSTTAYIRHPQ CPQSQHSFVQEGGTHYKAGHL CCRQWGPRACLPPGRPCHRGA
23007	53375	A	23141	2	412	
23008	53376	A	23142	47	487	
23009	53377	A	23143	77	459	GWKGIEHTLGRCLAQGVINY RMLLSWRRWLVAHPVF*SFSC VGPVGQS*RMTMLHCRHSDPV AKRLSCRRGDFASVVVLCPPPP RLRTLKHFLFFGGLPLSIDFVMT VDFCCHLHLTDFSSNFGF
23010	53378	A	23144	1	304	KVAGSPSPTPAGQQVLDVNSCL DSSVLDSSFLTFSGLHAE/AEGS TGGAALAYLGLKTLCTSQQAF AGQMKSDLFLDDSKSDLEEPW ELRKEGAPRSRDRE
23011	53379	A	23145	1	207	
23012	53380	A	23146	1	3009	
23013	53381	A	23147	3	298	
23014	53382	A	23148	1	636	
23015	53383	A	23149	1	795	

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23016	53384	A	23150	125	1527	SSPRQQTQLARVHP/DGRAQ/LA PSCLPGLGLCPVPVPCVNCNCPA CPCHEHCGEAP*GVA\AKRGAL RVHPPHPCGGPRAMTVTLHGQ DVLMLPGDLVGLQHDAGPGAL LHCSPAPGHPGPQAPYLSANAS SWLPHLPAQLKGTWACPACAL RLLAATEQLTVLLGLRPNLGLR LPGRYEVRAEVANGVSRHNL CSFDVVSPVAGLRVIYPAPRDG RLYVPTNGSALVLQVDSGANA TATARWPGGSVSARFENVCPA LVATFVPGCPWETNDTLFSVVA LPWLSEGEHVVDVVVENSASR ANLSLRVTAEEPICGLRATPSPE ARVLQGVLYVLLAGSSGYLVG FKFLESHGSDSGSANSFHCLISQ NEFKTL.LPDLTRAPRYSPPVEA GSDMVFWRWTINDKQSLTFQNV VFNVVYQSAAVFKLSLSADSAP RPRWRLQSPRVGRSLSPDPGFFG SPGPCQPRLQAFLI
23017	53385	A	23151	648	1387	ASTQSLLAWCPA.WLSIPSTWPS SFSSGCPG/CKAQPVVEVSRSSY VYLEGRCLNCSSGSKRGGYTFT LT.VLGRSGEEEGCASIPLSPNRP PLGGSCRLFPLGAVHALTTKVH FECMGWHDADAGAPLVYAL LLQRCRQGHICEEFCVYKGSLSG YGAVLPFGFRPQFEVGLAVVV QDQLGAAVVALNRSLAITLPEP NGSAMGLTVWLHGLTASVLP LLRQADPQLVIEYSLALVTVLN ETYTESL
23018	53386	A	23152	2	654	DKHIWLSIWDRPPRSCTFRIQRA TCCVLLICLFLGANAVVYGA GDSAYSTGHVSRLSPLSDTV AVGLVSSVVVYPVYLAILFLFW MSRSKVAGSPSPTPAGQQVLDI DSCL.DSSVLDSSFLTFSGLHA EIVNTLADHQHRTDFGSGPSVLII TVSLRSYKFAISLCTTYLWVINT LADHRHRTDFGGSPWLLIITV FLRSYKFAISLCTTYLC

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23019	53387	A	23153	2	4072	SRDPAGSYHLNLSHFWRWSALQ VSVGLYTSLCQYFSEEDMVWR TEGLLPLEETSPRQAVCLTRHL TAFGASLFVPPSHVRFVFPPTA DVNYIVMLTCAVCLVTYVMVM AAILHKLDQLDASRGRAIPFCG QRGRFKYEILVKTGWGRGSGT TAHVGMILYGVDSRSGHRHLD GDRAFHNRSLDIFRIATPHSLG SVWKIRVVHNDKGLSLALGFL QHIVVRDLQTAQSTFFLVNDW LSVETEANGGLVEKE
23020	53388	A	23154	1	10922	MPPAAPARLALALGLGLWLGA LAGGPGRGCGCEPPCLCGPAP GAACRVNCSGRGLRTLGPALRI PADATALTAMAKADGDVKKY GSKRGALALTHGSLLRDVSH NLLRALDVGLLANLSALAEIDI SNNKISTLEEGIFANLNLSEINL SGNPFECDCGLAWLPRWAEQ QVRVVQPEAATCAGPGSLAGQ PLLGIPLLDSCGCGATLVGPHGPL ASGQLAAFHIAAPLPVTATRW FGDGSAEVDAAGPAAS
23021	53389	A	23155	3887	14184	HVLCWVVTYMVMAAILHKLD QLDASRGCAIPFCGQRGRFKYE ILVKTGWGRGSGTTAHSVGIHA VWGGQPERPPAPGTATEPSTAT VWDIFQIRHPAQPGVACWKIRV FGTTTGSALPRFPCSTSSGTC RRHAAPSSWSMTGFRWRRRPT GAWWRRRCWPRVPRSVFPLR HAALLRFRRLGAEQLRGFFDK HIWLSIWDPRPSYFTHIQRATC CVLLICLFLGANAVWYGAVGD SAYSTGRVSRNLNLSVY
23022	53390	A	23156	1	442	GGASGMGGITASTVNQSLSLSP LVLEVDPNIQA VRTQEKQIKI TLNNKFASFIDKVRFLQEQNM LETKWSLLQQKTARSNMDN MFESYINNLRQLETLGQEKLK LEAEFTTWGPPLMPPTATKQFN CFFFLVQNKTSASSANVK
23023	53391	A	23157	1	497	
23024	53392	C	23158	208	422	

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23025	53393	A	23159	81	1339	ELSSPRSSFSAPSRISA WFGPPAS TPASTMSIRGTQKSYKGSTSGP RAFKQAAS*QRSQPGFRISSSSF SRVGSNNFRGGLGGYGGASG MGGITAVTVNQ/SRALLSPLVL EVDPNIAVVRTQEKEQIKTLNN KFAFIDEVGFLEQQNKMLGT KWSLLDQKTA/RSNNM/DNMF/ ESYNNLRRLQLETLAQEKLKLE AELGNMQGLVEDFKNNYED/IEI NKSTETENEFVLKKDVDEAYI NELYEEIEIRELQSQISDTSVVL DNRSLDTDSIAAEVKTEISEMN RNISWLQAETEGKGGRISE GIADAEQRRELVIKIDANAKLSE LEAALQQTKKLLE/MENMSIHT KTTSGYAGGVSLAYGGLTGSG LSYGLSSSRSGAGSSFSRSTST RAMVVKKIKTRDGKLLTSLR
23026	53394	A	23160	1	651	MTAFNSGKVDIVAINDPFIDL YMYMFLYDSTHGKFHGTVK AENGTLVINGNPITVFQDQDPS KIKWAP/LAKVIHDFNGIIEGFM TTVHTITATQTINGPSGKLSRDG CRALQDIIPVSTGAAPVGVKVIP ELNGKLTGMFAHVPTANVSVA DLTCRLEKPA/KYDDIKK/INTHS STFDAGAAIVLKDHSVKLISWY DNEFGYSNRVVHLMAHNASKE
23027	53395	B	23161	1	382	
23028	53396	A	23162	3	1151	ASAHASAVRQSAIIFCVA HIAETPLGKVKVGVNGFGRIGR LVTRAAFNSGKVDIVAINDPFID LNYMVMFYQDSTHGKFHGT VKAENGKLVINGNPITVFQERD PSKIKWG/DAGAEYRRGSPGLV FNQPRWKAGGSICKGSGQKGS ISAPSAECPPCFVMGCEPMKKY DKQAFKIIISNASCTNQLL*HPL AKG*FHDNFGNSLEGLHDHKS MAITANPRKTV/DGSPRGKLWP LMGRGALQNIIPASTGVA GKVIPELNGKLTGMFAVRVPTAN VSVVDLTCRLEKPAKYDDIKK VVKQASEGLKILGYTEHQV VSSDFNSDTHSSTFDAGA/GIAL NDHFVKLISWY/DNEFGYSNRV VDLM/AHMGFGQS
23029	53397	A	23163	160	236	
23030	53398	A	23164	931	1124	
23031	53399	A	23165	132	303	

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23032	53400	A	23166	20	171	
23033	53401	A	23167	1008	1262	HELQCSLLPVRHATAGHTNGQ NRLHWGHVAHSNYGAALKTN GVEVR*FTAAIARCDGNPYESF RKDVRAFQTRIDAIVRCLPK
23034	53402	A	23168	732	1162	RCIEKGRKGHQAPTGSTRPDG TILSACRSQQQGMFASAGV ARQMGSSTGNLPHLV*PYFLGLS SKAHTG*LHKKR
23035	53403	A	23169	2	1093	
23036	53404	A	23170	236	496	
23037	53405	B	23171	22	3084	
23038	53406	A	23172	305	522	LRDGRGSMSSSSPNSASGSAICP ASSVMPETVSVSRVMPNVTKP A/MTAKQTRIRNQMVAITYES DAWNRSYQ
23039	53407	A	23173	177	386	
23040	53408	A	23174	3	200	GAVAPMHPLAHPVPGAAAQPP PA*QPATPCHQPA*GQPA PPDV PGPESAGRSLHHAHICLAPNEQ
23041	53409	A	23175	171	535	
23042	53410	A	23176	190	505	VPTDRIRTLTSVCKRRCEVHQ LEDPRFEVYQVA/PRRD*SFETS VWNHMRKQ/PPLDVRQLAS*N VLHRQLDIMDSAVASMYSIHLS IKMGIGFSGVTTVVKGTPK
23043	53411	A	23177	349	1272	
23044	53412	A	23178	518	1451	VSSSIIMFGPLSQFPRQVQGVSSV KRPSNVVCPGLMFSFFSSAA*IP **PLI*QPGV
23045	53413	A	23179	2436	2894	TSPDVLRAQPRVPSVQGTSPSQ SCPGQRPHGPNSKAYGR/LSVM AQYYCNVIPLE/VPPSAFTPPP KVDSAVV/RLVPHATMPHPVK DVRVLSRITTEAFNQRRKTIKRS LGNLFSVEVL TGMGIDPAMRA ENISVAQYQCMANYLAENAPL
23046	53414	A	23180	1846	2557	IPVSEKQSGDWRFFSVYVVKNA GGLIYQLDSYAPTGLRLEKTFIS YPLDLLLKLHDERVLVAFGQR GRHPEWGHAVLVAINGMDVNG RYTADGKKVLEYLGNPANYYP VSYLFAQPLTSNDKLMAL MFHSLFAIGSQACLPIEQGKPGQ IENAWKTDTFKLHCYQTLTG KFVVLADPRQAGIDSLRKIYEI YSDFALKNPFSYLEMPIRCELFD QNLKLALEVAEKAGTFPGPS
23047	53415	C	23181	34	225	
23048	53416	B	23182	105	381	
23049	53417	A	23183	1	837	

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23050	53418	A	23184	3	744	HEASCRERRRQMAFDFTYDD RAYSSFGGGRGSRGSIAGHHGS RSQKELPTEPPYATAYVGNLPFN TVQGDIDAIKFDLSIRSVRLVR DKVTGKFKVGFYVFEDEVDSL KIEALTYD/GALLGDRSLRVDF AKGRKTKIRVAFGRKGGPDD R/GFRDDFLGGRGSRPGD/RR TGPPMGRVFRD/GPLRG/SNM DFREPTEEERAQRPRQLKPR VWRPLNQVANPNSAIFGGARPR EEVVQKEQE
23051	53419	C	23185	1	1038	
23052	53420	A	23186	1	1486	MGRNQSRKAENSKHESTYSPP KDHSSSQAMEQSWTENGFEKL GFRRKEALYYLDLTASCQSQEL FQLYAGMSVVGTSMPVQAVCP YCGNRIITVTTFPGALTWLLC TTLFLFGYVLGCCFLAFCIRSLM DVKHSCPVQRELFFYHRLRQ MELASSARTVVAPSRPCAGREG RGDANGKNSPTAGSAMSEPP PPQPPTHQA/GVGLLDTPRSRE RSPSPALRGNVVPSPLPTRRTRT FSVATVR/ASQGPVYKGVCKCF CRSKG/HIGFNYPAGWAGPDIF PGTSLDVGGRSYVPSGKGDEV TLLKCAPIPTPKNEKLAGPWEV VHHSPWHPGT/KHET/WSG/HVI SFLGGLVESTPLSLCFVGDFA RRQQTLEDDILPHETGLQRGNG PSQVSPGGKGYGGAGVGCVF PAISTAYGPLQQLHHLKSIKSH LKRRAHWWLSGGSNPIPGSGS RVGISSQLAQTHGLNPQNPS WSWRPQIPRSGPLAA
23053	53421	A	23187	2	617	
23054	53422	A	23188	1	993	
23055	53423	A	23189	779	1210	AAAGSEAGRRRGADPTRGPHV LPGSRQRRP/PIFSLDLSGFFLF CSEFCPEIKSTNPGISIGDVAKE KKKLGEWWNSLNDSEKQPYFT KAAKLKEKYEKDVADYKSKG KFDGAKGPAKVARKKVEEDE QEEEEEEEEEEEE

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23056	53424	A	23190	116	522	KAPYSTNSLSLPPFPLFMGSGY RKQPTTFQEPKPLPGAAARGPGC DPTQPPRHSAPRDHGGP/SPRCS PRPARPRASPAWLPAPRAPTPPSP PAPAAAPRSCRGHARASSGRSG TTATPRRRRGGLWNQSPMDIK G
23057	53425	A	23191	1	152	
23058	53426	A	23192	1	676	MWSAGRGGAAPVPLLGLLLA LLVPGGGAAGTGAELVTCGSV LKLNTTHHRVRLHS/HDITYGSG GSGQQSVTGVEASDDANSYWR RIRGGSEGGCPRGSPVRCQAV RLTHVLTKGNLTHHHFSPLSN NQEVSAFGE/EGEGDDPGTLW TVRCSGTA/HWEREAAVRFQH VGTAVFLSVTGEQYGSPIRGQH EVHGMPCQ/QHNTWKAMEGI FIKPSVEPSAGHDEL
23059	53427	A	23193	1	1044	
23060	53428	A	23194	1	1083	MTATLAAAADIATMVSGL AAARLLSR/SFLLPHNGIRHCAY TA/SLRQHLYVDKNTKICQGF GKQG/TPFHSQQALEYGTCLVG GTTPGGGQTHLGLPVFNTVK EAKETGATG/SVIVPPPFAAA AINEAIEAEIPLVVC/YPRGIPQ GLGHSSSHKTCGPKDKAYWG PNCPGVINPGECKIGIMP/HP HKKGRIGIVSTSGTLTYEAGH/Q TTQKLGLGQSLCVGIGGDPFN GTD/DFD/CLEILFERFLPQEGII L/G/EIGGNA/EENAAEILEPLYSGS KF/ARPVVS/IIAGLTAPPGRRN GVMPGAIISGREKVGAKRERSS ALQASAGVVVSMSPCTAGEPRF YKEFEKREDRL

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23061	53429	A	23195	1173	2110	FFTELEETILKFIWNQKRACISK ARVNTNDKSGGITLPDFKLYNE AIVAKTTWYWYKSRHIDQEK REEKKE*KKDPSVPETLKKKQR NFTELKIQCLSKKFAQKMLQTA RRKLIYEKVKHCHKEYRKM TEIRMARMATKAGNFYVPAEP KLAFVIRIRINGVSPKVRKVLQ LFLLYQIFNGAFVKLNKASINM LRIVEPYIA/WRYPNLKS VNELIYKCGYKINKK*/IALTDN ALTA RSLGKYGI CREDLIHEIYTVGKCFKEANN FLWPF/K/LSSPRGGMKKKTTH FVEGGDAGKREVQINRLIRRMN
23062	53430	A	23196	3	571	GTMEGVEEKKEVPAVPETLK KKRRNFAELKIKRLRKKFAQK MLRKARRKLIYEKAKHYHKEY RQMYRTIIRMA/RMARKVAGN FYVPARTQIWRFVIRIRGINGS EPQRFKVLQLLRPFKIFNG/T PFVKLQGGFRFNLDRCSRSHIL AWGIYPNLKSVNELIYK/RGYG QNQFDLHFFTEKRSHPGSQ
23063	53431	A	23197	2	340	PRVPRVRDSKMASVGEVSGP QYPVKDKLLAEVQTGGSPSPW NLMRGPSSPSGIFGAFQGLLR GTYNKYTNVKKGSDLGFTMV LVACYVLFYSYSFSYKHLKH ER/LRKYH
23064	53432	A	23198	2	48	PRVRLRC*MVDEYCGCEW GK*LNNGRVLWM
23065	53433	A	23199	123	693	QACIMREYKLVVLGSGGVGKS ALTVQFVQGFVEKYDPTIEDS YRKQVEVDAQQCMLLEILDTAG TEQFTAMRDLYMKNQGQGFALV YSITAAQSTFN/DLQDLREQILRV KDTDDVPMILVGNKCDLEDER VVGKEQQQNLARQWNNCAFL ESSAKSKIYNEIFYDLVRQINR KTPVPG/KAPQKSPSCQLL
23066	53434	A	23200	461	1422	SPHGEPLLGQCRREMVGWSLH TESPLG/QWGSQILKLQNDLL
23067	53435	A	23201	232	331	TPL*KWLRGVMAVTVVTPQTG IIAIPDPHHEWGSTGYPR LPA



SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
23068	53436	A	23202	5	1223	GLDSGPESGLRAQPGLLAGKRK MSVLRMMRVSNRSLAIFFFF SLSSSLYFIYVAPGIANTYLFM VQARGIMLRNVKTIGHMIRLY TNKNSTLNGTDYPEGNSSDYL VQTTTYLPENFTYSPYLPCEPKL PYMRGFLNVNVSEVSFDEIHQL FSKDLDEIPGGHWRPKDCKPR WKVAVLIPFRNRHEHLPIFFLHL IPMLQKQRLFAFYVVEQTGTQ PFNRAMLFNVGFKEAMKDSV WDCVIFHDVDHLPENDRNYYG CGEMPRHFAAKLDKYMILPY KEFFGGVSLTVEQFRKINGFP NAFWG\WGGEDDLWNRV\H YAGY\NVTRPEGDLGKYKSIPIH HHRGEVQFLGRYKLLRYSKER QYIDGLNNLIYRPKILVDRLYT NISVNLMPELAPIEDY
23069	53437	A	23203	78	495	CTFEKAPPFQLGRGRMVPAKK GGEKKTGR\AINEVVTREYITINI HKRIHGVGFKRAPWALKEIR KFAMKEMGTPDVRIDTRLNKA VWAKGIRNVLYRIHVRLSRKR NEDESPNKLYTLVTYVTVTTF KNLQTVNVDEN
23070	53438	A	23204	138	360	KNQKRQLSGGHCADQTSLVLA RLAPLF\PTTMSDKPDMAEIEKF DKSKLKKTTETQEKNLPSKETT EQEKQAGKS
23071	53439	A	23205	145	728	KRQPTSAMKDPFSRSTSPSIINE DVIINGHSHEDDNFPA\EYMWD GKMEGRNFNR\QIGRRELWGR KD\FLNRCFPKE\MLGEGKEG ALNWWVLFPSFEILPHQTMGPNP RTSFNDPCLSSDGSF\SWEDLVV KS\NLNPNAKEFVPGGEVRKYL SRRGPLLVDVAQFPHCEGSIRR LNCKSSLGHCVTL\AJAQSFC
23072	53440	A	23206	530	707	
23073	53441	A	23207	1	515	MDFS\KVP\PHAA\FAQPP\ALT WGLAKGSGRGAGEGGERPDRR R\PAARTGTPA\WRPAGRRRLPP RSPPPA\VPV\RPAL\PHV\PGKE TGKTRRRRHYS\PRPLRGAA AAAAAA\VAQTASPSWAEGGRS GAGGSAES\PAFSSPAL\PCPEGLL CPSAVPVPSKQSVSEVLAIF
23074	53442	A	23208	3	713	
23075	53443	A	23209	1	704	

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23076	53444	A	23210	2	1631	GLPRRPTRPPTRSGVSPWPVPGPH SGVLFPLLHCTGSLSQAVLTQ PSSLASAPGASVSKLTCTLRSDIN VGSPFIYWYQQKPGSPFPQFLLR YKSDSDNQQSGVPSRFSGSKD ASANAGILLISGLQSEVRRDDYY CQAWDSSTAHSDTGRGIVGRVP PVRQCWPLILLGLAMVAHGLL RPMVAPOSGDPDPGASVGSRS SLRSLWGRLLQPSQPRADPRC WPRGFVSEPSQLCYVFGTGTK VTVLGQPKANPTVTTLFPSSEEL QANKATLVCLISDFYPGAVTVA WKADGSPVKAGVETTKPSKQS NNKYAASSYLSLTPEQWKSHR SYSCQLQWGLGLGASQGGFLY EPVSCQVVFVGGGTCLTVLGQP KAAPSVTLFPSSEELQANKAT LVCLISDFYPGAVTVAWKADSS PVKAGVETTTPSKQSNKYAA SSYLSLTPEQWKSHRSYSCQKP NHASHGTSRMPVSAPVSGLSK CWSGTGDRSALQGMGPCHGI PDPMQQASDSGQPKAAPLGLS CSKPSSEELSGQQPHWCVS
23077	53445	A	23211	1	959	VFLLLYLVAMPDPAKSAPAK KGSKKA VTKAQKKDGKKRRR SRKESYVYVYVVLKQVHPDT GISSKAMGIMNSFVNDIFERIA GEASRLAHYNKRSTITSREIQT VRLLLPGELAKHAVFIENLLNY RKYL VKSSEKDRNYPCPLGLK SKVDICTPYCLLLPQPRHYPG KDTKEETEDFPNSPPINREEDK RYTTVMGPCLRQAALLEGELLA CPVMEDQANWVHEPITNTF KEIRKSIRENGPASPFTRGLIEVI ADSSDLVASTQKLTPKETPSA PYNDISDLTNQDSWFGFPIWNN AGETDLSNNKTT
23078	53446	A	23212	3	463	
23079	53447	A	23213	74	464	
23080	53448	A	23214	41	490	
23081	53449	A	23215	2	369	PDPAANAPAAAKPAAAKALPV FLLLSGGAGPAHPMRAPGC*G ELGYTEQLFQFLQATAQEEGIF EYTDPKLAISAVWTFRDLGVVLQ QTPSPAGPRLHLSPTFASLDNQE KLEQFIRQFICS
23082	53450	A	23216	124	301	

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23083	53451	A	23217	3	2426	PGVLSTATFRESGLSPCSKLLKHP GPRGRILQYSPPTAGQGRLENG AGHPQSTGPVATLSVAEYGTQ GGASGPARIPIGSRGCLLAGRA EASLWSSGFGMKLEAVTPFLG KYRPFVGRCCQTCTPKSWESLF HRSITDLGFCNVILVKEENTRLF SWALLRVLLKLLFNLVQLHKGQ MKMVQKAAQVGVGTSLWL SPEQGLPLVLLSTHKTLLDGILL PFMLLSQGLGVLRVAVDSRAC SPALRALLRKLGLFLPPEASLS LDSSEGLLARAVVQAVIEQLLV SGQPLLIFLEPPGALGPRLSAL GQAVWVGFVVQAVQVGIVPDAL LVPVAVTYDLVPDAPCDIDHAS APLGLWTGALAVRLRSWRWG CSHRICSRVHLAQPFSLQEYIVS ARSCWGGRTLEQLLQPIVLGQ CTAVPDTEKEQEWTPTGPLLA LKEEDQLLVRLSCHVLSASVG SSAVMSTAIMATLLFKHKQG VFLSQLLGEFSWLTEILVRGFD VGFSGQLRSLQHSLSLLRAHV ALLRIRQGDLLVVPQPGPLTH LAQLSAELLPVFLSEAVGACAV RGLLAGRVPPQGPWELQGILLL SQNELYRQILLMHLLPQDILL LKPQSSYCYCQEVLDRLIQCG LLVAEETPGSRPACDTGRQRLS RKLLWKPSGDFTDSDDDFGE ADGRYFRLSQSHCPDFLLFLC
23084	53452	A	23218	169	955	ASSQLPCSMACCATWAPLKM RWLCSTAWSTSSLPPSWSSL QASQPSCCHATSAPPACAGQCL ARAWPVLFLCTCALGLLASIA MTFATQGKALLAACTFGSSELL ALAPYCPFDPTRIYSSSLCLWGI ALRCSAWAENVFAVRCAQLTH QLELRPWWGKKQPTHMMRE NPELVEGRDLLSCTSSSEPLTL CRDDVLP RP DGGQLRTLQATLL CDPGPGFLGAGLRGLKWTGG PISGAFQPSSPTPAHLHLKIETL F
23085	53453	A	23219	1	344	

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23086	53454	A	23220	214	1355	FCSSWLRLSLADSSLWKMFVLVGLTGIIASGKSSVIQVFQQLGCAVIDVDVTARHVVQPGYPAHRRIVEVFGTEVLLENGDINRKVLGDLIFNQPDRRSLNAITHPEIRKEMMKETFKYFLRGYRYVILDIPLFETKKLLKYMKHTVVVYCDRDTQLARLMRRNSLNRKDAEARINAQLSLTDKARMARHVLDNSGEWSVTKRQVILLHTELESLLEYLPLRFGVLTLGLAIAALLYLLTHYLLPYAYTASAIPPSGAASRGPGARCSAIRKRAPARPTSAVSPPGAPRSPARGLRAIDRAAGTRNLNATLPPGPPAPPSPSPSSITLHVFIQLQPDITRGREGTDFQWEKFPGRVLVADSRRLRCLAPATWLV
23087	53455	A	23221	2	1231	TPFLFRKGTADGSARTTVIHLGFTKGGKQRCVETQAAAAGVDVGRTAAGGRVKGESGVSSDDRPGLPVGQSQPEGGEQATDTVSVHATTSSQAWPGGADSKELSSKAEERETGKDQQTLEPLCLPLRDFPDSAPVMSSDSGHATESLHLASSDSKPPMPTPNEGPGSTVGHAGPRTVKADLCTEPLALRGLQVSLPRLHLVGVIIAEHQASGLECGHAGSCSPDGSPRAPGATLCLS KPLSFRTKRCLPCWLPASAPVGPAGAPVHIPGAPVCIPGAPACISNAPVHIPGAPVGIPIGAPVCIPGAAVCVPNTPMCIPSPMCIPIPTVCIPIPTVCIPIGAAVCILGAPRAHPWCSSCVHPGAPECYLGCGLTQADRLPEAVLDAGLQELPLFALCGQALPS
23088	53456	A	23222	2	408	
23089	53457	A	23223	62	251	

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23090	53458	A	23224	2111	3003	TQKAIACMCLGLCKKIHHLLSLQ CLISQIKMIMGAGWQ/SSGFTDE KETSQIKADPEKLLKQLQESLLE EDSEEEGDLRCICQIAGGSPSNP LLEPCGCVGSLQFVHQECLKK WLKVKITSGADLGA VKTCEMC KQGLLVDLGDFNMIEFYQKHQ QSQIKTEATVVEHKDIYVNTET QLVPEARSVLLVGAGQMLLTG ANRALNSDYSSMRPKVKAQNE LMNSGLYLVLHLYEQRF AEL MRLNHNQVERERVVRVRLGG LSPNVSCGVVSGVGSFQWVRG LTDLKNEASDLHAQIPAE
23091	53459	A	23225	1	594	MIAAFNPGKVDVTITNGPFIDL NYMVMYMFHYDPTHGKFHDVP MFVGMGMNHKHNKLTVISNAS CTTNCLDPLAKVIHDFGIREG LMTTVHSIIATQKTV DGP SRKL WHDHSHGAFQNTIPASTGA AKI KKVVRQA/SQGPLKGILGYTEH QVVPLEFKSNTRPSTFEAGAGI AVNDHFVKLISWYGNEFAYSN KVIKPM
23092	53460	A	23226	3	232	QQTLLQPAALPCFPFPPTHPPEVL PTAMNTTSSAAPP SLGV EFISLL AIHLLSVALAVGLPGNSFVWSI LKRMQKRSVTALMVLNLALAD LAVLLTAPFFLHFLAQGTWSFG LAGCRLCHYVCGVSMYASVLL ITAMSLDRSLAVARPFVSQKLR TKAMARRVLAGIWLVSFLAT PVLAYRTVVPWKTNMSLCFPR YPSEGHR AFHLIFEAVTGFLLPF LAVVASYSIDIGRLQARRFRRS RRTGRLVVLJLITFAAFWLPHY VVNLAEAGRALAGQAAGLGLV GKRLSLARNVLIALAFSSSVNP VLAYACAGGGLLRSAAGVFFA KLLEGVTGSEASSTP/RGGSLGQ TVKSGPAALEPGPSES LTASSP LKLANELN
23093	53461	A	23227	1078	2221	
23094	53462	A	23228	6125	6319	ASVVPVTALAMCSPKSGIGDG FAVLRVEDVAQK***KAALGV ASSPAWQOTREHVGQNSPL
23095	53463	A	23229	1	1347	

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23096	53464	A	23230	1	1124	MRECSIHVGGAGVQIGNACWE LYCLEHGIQPDGQMPSDKTIGG GDDSFNTFFSETGAGKHVPRAV FVDLEPTVVDEVRTGTGRQLFH PEQLITGKEDAAASNYARGHYTI GKEIVDLVLDRIKRLFGGGTGS GFASLLMERLSVDYSKSKSLEF AIYPIAPQVSTAVVEPYNSILT HTTLEHSDCAFMVDNEAIYDIC RRNLDIERPTYTNLNLIGQIVS SITASLRFDGALNVDLTEFQTN LVVPYRIHFPLATYAPVISA EKA YHEQLSVAEITNACFEPANQMV KCDPRHGKYMCCMLYRGDV VPKDVNAAIATIKTKRTIQFVD WCPTGFKV*LGDMFAFQQAAD AQNNLTGLEPHPLGRSLFHGL
23097	53465	A	23231	1	2918	MDVYCAHESLRHTKSPDATGQ TSQGRPEALQAFWPAFGSSPVT GSSPVTETTKGRWSSSRQVL WDRIPLAKSRPAISNRQSQRNTI PWWSCEPPLNLEREQPPRFAQP GTYASRWKALEMEKQOREQ VDRNIREAKEKLEAEMEAAH EHQLMLMRQDPLALVSCMQ QGQMSRSRSPKKVFKHLYELNL TKLQSLGSRSLRWKDSFVWGE EAGGKRPLVSLALHRSPLLL LFVPKHPKGRPDCTVQRS
23098	53466	A	23232	1	158	
23099	53467	A	23233	1	414	LGGLKGTWGETKPAMAAAE DGGPEGNRERGGAGATKTL YTG NHLFS PQWLETRPERQEC VCKAGISREKVVGESLLTFS HFLRLKTPQICRLPV*LFLPP*GF QPFQDGGFHFSGVGAFFPGF FNPSY
23100	53468	A	23234	1	663	
23101	53469	A	23235	2	667	SWAGGGFWFGACVCFVGGTE GYVGRNKTGHGSSRRRRSGAP NVPNRERGGAGRPKTPFECNIC LETARELVSLANLYFWTISH QVLETRPEIRQECVPCKAGISR EKVVPLVYGRGSQEAIPRLKT PPPPRGQRPAPEIRGGGFQPF DTGGHFPSFGVGAFFGFFTTV FNAHEPFRRTGVDLGQGH A/SSWQD/SLLLFLAIFFF/WLL
23102	53470	A	23236	363	476	
23103	53471	B	23237	224	364	

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23104	53472	A	23238	1	1324	MRQRRRAELLSKDKRVRTDGN KCSPSAIGKRKRGTNDWIEGD NNQESQGLNCSDDLNRDLGPN TRGFLYAGLSGLDPSLPTPD MSSEVL EDNLDL SL YSGKDS SVKLEEYADSESQASLQGRSR CWQHPPHAPLSYPPAASGSQLS LQGGFSPAKPPLLGGYTCTAQR TQWALTKRSLRATRESVSRQQ GVYGLVGRKRTRHHRGVGLGL GIPSARPERPGTGEAGPTRLPG AAVARRRPARPVRGRGLGDPAP TAAQTSGPASPPLPPPPRSYGP HQNGYDPDPAPSASDLPPAA GDTGSGGRRKKRRTGTARLN TPGRKA\PKQKAAAGRKGRAH QPAPRTPEPQRRRPIRPPNQTD LRHPHRRACRGPPPGAGGTA NPSTGANGAATARRTAGART RGARGASERAGRHGSRPASWL TATPPPGT
23105	53473	A	23239	1	433	PTRPSSPEETDGPWDPEGHGG PLTDPNAPVLALPPAIPGLSL MADGSSDAAREPRPAPAPIRRR SSNYRAYATELQDLCLRHAR VDKVDEERYDIEAK\VTKNITEI ADLTQKIFDLRGFKRPTLRRV RISADAMMQALL
23106	53474	A	23240	2	409	
23107	53475	A	23241	3	490	SSPEETVGPWDPEGHGGPLTD PPNAPVLALPPAIPGLSLMADG SSDAVRAAG*GVAGTPRARAR EPRPAPAPIRRRSSNYRAYATEP HAKKKSKISASRKLQLKTLLLQ IAKQELEREAEEERRGEKGRALS TRCQPLELAGLGFAELQDLCLRQ LHARVDK
23108	53476	A	23242	149	846	VSAWRNGSSDAAREPRPAPAPI RRRSSNYRAYATEPHAKKKSKI SASRKLQLKTLLLQIAKQEL REAEERRRGREGARSLAPRC/QP LELAGLGFADLPGLCCRFHA RVVDKVDEERYDIEAKVSKNITE IAN\LTQKIFDLRSKFKRPTLRR VRISADAMMQALLGARAKESL DLRAHLKQVKKEPKEKENREV GDWRKNIDALSGMEGRMKKW RELSLPA YCPCPEEGH
23109	53477	A	23243	1	487	
23110	53478	A	23244	80	511	

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23111	53479	A	23245	427	1417	KTMWKVEFGVRFSTIRLLLEHQ PKQTMYPILPK/PPLWPEEPKTE APKQTPRAPPKPKTSPRIPRIPQT QPEETDQSTQEPFTTKIPRTIEL AKTTQGLEMLSLIHNPKMHK DSTNEQIAASLQACYEQLLM YIRVTDVDSVGPNGKEAVTA PQAPTFLFWLNHKAQLAKDWA GKDVNITPTFATSKKENKPPNN LQICNVSKIHQRAKVAGKPEIK DKHIQKEMPLDAIEASKINLVKI FNEFLKAWKCRLSFEYRIPENQ GHKGSFYLLVGSSRTSWLLTEK IGSSKRVLRMPPMDILKTTQILL SFLWSINLTPRGKNNHLVAPAH
23112	53480	A	23246	3	1011	
23113	53481	A	23247	2	334	PIQSFFLVLKPPRLKGVYLSK SLSRWFFKVQAN*RSQPKAFS RLSCHC
23114	53482	A	23248	1	642	
23115	53483	A	23249	854	1150	KEDTNKWKNPICSWLGRINIVK MAIMPKVNL*IQCHPHQATNDF SSQNWKTTLKFIWEKPEKAL PSQS*AKRAKLGGITLPDFQTIT YKATVTKTA
23116	53484	A	23250	1754	2393	PSNRREFGESWPETQAPGALRP LLPAPGTPRARERAPGWPARPM EYIYPSFRYEESDLRGYTVFKI EVLMMNGRKHFEKRYSEFHAL HKKLKKCIKTPEIPSKHVRNVV PKVLEQRRQGLETYLQAVILE NEELPKLFLDFLNVRHLPSLPK AESCGSFDETESEESSKLSHQPV LLFLRDPYVLPAAADFNPVVE GVLHGIFYPHLQPR
23117	53485	A	23251	1	265	AGNRLRFQLELEFVQCLANPNY LN/WYPQCLHMLELLQYEHFR KELVNAQCAKFIDEQQLHWQ HYSRKRMRQLQALAKQQQQN NTSGK
23118	53486	A	23252	1	987	
23119	53487	A	23253	1	491	RGRNFRARVSGLLLCQAGGVL VSSFVMAAAVAMETDDAGNR LRFQLELEFVQCYANHNLTIFLP QRIGYFKDKAFVNYLKYLLYW KDPEYAKYLYPQCLHMLGA APNMEHFRKEAGWNAQCAKF IGWNRQVSTLGKHYSRKRM/R LQALAEQQQQNNTSGK



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23120	53488	A	23254	73	355	HEGQVHVLLASAHVDVAIVLG AGSMVEGEARPEQAAQH HQGI APLHLDAPGPSWTQSRSPNRNA NQNHCTSEAT*SHPEQLPQTLW ECHAPRSP
23121	53489	B	23255	1	441	
23122	53490	A	23256	528	698	IIGQRFLHGPV/H/HHSHYDN/PH HSLHHHRCLHHCHLHHHRHHL HHHPLHCYHHHPGQNG
23123	53491	A	23257	1	403	
23124	53492	A	23258	509	4547	LYLTTSRREEHLKSLVETQDL ASPVLRVSICTKVEEAFRQAH VIVVLDSDTNKEVFTLEDCLRS RVPLCRLYGYLIEKNAHESVRV IVGGRTFVNLKTVLLMRYAPRI AHNIIAVALGVEGEAKAILARK LKTAPSYIKDVIWGNISGNYYV DLRKTRVYRYESAIWGPLHYSR PVLNLIIFDSEWVKREFVAILKN LTTTGRQFGGILAAHSIATTLKY WYHGSPGGEIVSLGILSEGQFGI PKGIVFSMPV
23125	53493	A	23259	56	290	
23126	53494	A	23260	468	993	VLLACFWPGSDFWPRSRRKTY GTAPQSCSYFYVALDCGGVSRL VIFVSWRNPQVAPTSAHQNRPS RNPVSRPPNTQVARRKHYAL ADGYTERRWTNAPCRAESSFPP NCPSAAPIPDSYDK*PSRATLFT SHLTVEAFPVWSYLYPGETPRL HPRAHTRTVPAIRYPDRQTPN GLRGANTMHSQMDTLNGDGR THLAGQQRASPRTPARQRYRI HTTSDLPLGLVRKYASGCCLRIW YCCAWIERALSQVGGGVFGD PLSEQAECDDHGST
23127	53495	A	23261	1	3114	
23128	53496	A	23262	3	401	TSSLSLSGKSGRYIVFLRRSVGI QSPSAVATVRLLLAGSDRRFAA GSAGCAVLSRAERS*EPGCCYR IRRSFAFLRAGSIGNRDKPVAW PDTGSGDNTEVYFRAHQAGILP DTVLAGPAQRVAVSGGTPVDW
23129	53497	A	23263	2874	3062	

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23130	53498	A	23264	2766	3323	MPDLVEGREKSDKGAQPQPR QSRARTNGSGVRILHSLWRIIG IPLLLGYSLVCSRVLLACFWPG SDFWPRSRRTYGTAPQSCYSF YVALDCGGVSRVIFVSWRNP QVAPSAHQNRPSRNPVSRPPN TQVARRKKHYALADGYTERR WTDAPCRAESSFPNCPL*RY RIHIVDASVCGP
23131	53499	A	23265	968	1440	
23132	53500	A	23266	3	640	LSVVRSRIHMGVGVGVGCPVR YRNQDDHELQITHGNKILCGIV CDKGAQPQPRTOQSRARTNGSG VRILHSLWRIIGIPLLLGYSLVCS RVLLACFWPGSDFWPRSRRT YGTVPQSCYSFYVALDCGGVS RLVIFVSWRNPQVAPSAHQNR PRRNPVSRPPNTQVARRKKHYA PADGYTERRWTIAPCRAESSFP PNCPSAAPIDPSYDK
23133	53501	A	23267	1	3140	MVYKMRYSQHYPYSIKEKQMK SEVLVKEKIGYGMGDAASHII FDNVMLYMMFFYTDFIGPAGF VGTMFLVARALDAISDPCMGL LADRTRSRWGKFRPWVLFGL PFGIVCVLAYSTPDLMSNGKMI YAAITYTLTLTYTVVNIPYCA LGGVITNDPTQRISLQSWRFVL ATAGGMLSTVLMPLVNLIGG DNKPLGFQGDLSPMFSTPEEIA RPGPYENDVHVVGASSLAAGH KTLIPELVRSAEQHMGR
23134	53502	A	23268	750	1340	ILHAPAPPSASASHEQPEWSD KGAQPQPRTOQSRARTNGSGVR ILHSLWRIIGIPLLLGYSLVCSRV LLACFWPGSDFWPRSRRTYGT APQSCYSFYVALDCGGVSRV IFVSWRNPQVAPSAHQNRPSR NPVSRPPNTQVARRKKHYALA DGYTERRWTNAPCRAESSFPN CPFAAPIDPSYDK*PFRIVS
23135	53503	A	23269	93	699	RASVQKQLSTDDKGAQPQPR TQSRARTNGSGVRILHSLWRII GIPLLLGYSLVCSRVLLACFWP GSDFWPRSRRTYGTAPQSCYS FYVALDCGGVSRVRSYLPGET PRVAPSAHQNRPSRKPGTRPP NTQVARRKKHYALADGYTER SATNAPCRAESSFPPELVPQVP NTGFIQVTRFDCFVNTPQAAA SGFW

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23136	53504	A	23270	1000	1530	QRYSDNPPNDKGAQOPQRTQSR SARTNGSGVRILHSLWRIIGIPL LLGYSLVCSRVLLACFWPGSDF WPRSRRKTYGTAPQSCYSFYV ALDCGGVSRLLVIFVSRNPQV AP TSAHQNRPSRNPVSRPNTQ RVARRKHIALADGYTERRWT NAPCRA/VEPFPNCPWEAQYRI
23137	53505	A	23271	242	711	LKQKRDKEDRSSRVSAVLLIK/ HRRPLPLIGLKACHCSCTAKC LGGCESPRKGGQLLIFEGHVKI DLEIFTKSLWLTQQLIVKKETEK AVKHASNICIMRTGLTFQSHKIE DGLFGLLVIA TEAEWSYVCQST NPVDVYPLTAVPACCIASADV P
23138	53506	A	23272	2	459	CVNSQIGRGHKITTYPFSPRKS G RKGMASQSGWVKRYIAFKC GFFVAVPVAVTFLDRVACVAR VEGASMQPSLNPQGSQSDVVL LNHWKVRNFEVHRGDIVSLVS AKNPEQKIIKRVIALEGDIVRFP *DFCMPMPHISCGPQSAGRNW
23139	53507	A	23273	1	474	
23140	53508	A	23274	358	948	PLTPFSRKSGRKGMASQSGW VKRYIAFKCGFFVAVPVAVTL LDRVACVARVEGASMQPSLNP GGEPV/ASDVVLLNHWKVTEF/ SEVHRGDIVFIG/APKNPEQKIIK RVICSLKGDIFQNHRTQKPDVK VPRGSHLGLGDHSDVDTVDFS NSFGPVSLGLLHAHATHILWPP ERWQKLESVLPERLPGTERRG MTA
23141	53509	A	23275	90	664	NKYRLQSPPLRLWDRASDPP APPEDPETAPAMEEDQELERKI SGLKTNMVEGERKTTLELVIQ AAGVTD RP/CVTFVLHEEDHTLG NFLRYMIMKNP/EKVEFCGYT YG/HPSFQRAKLNLPHSRFRGY PFAVEPISREALNLMNVCQP CAFTSFRASIKDYKESKSKQEM ESTFLVLLWQFYKGGTVL
23142	53510	C	23276	108	320	
23143	53511	B	23277	446	625	
23144	53512	A	23278	1	3042	
23145	53513	A	23279	1	3156	

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23146	53514	A	23280	518	2076	QQR*MCQNLMTHQNRSGR SQNDF*RRRKNISERSAVYR*R QLYIRRPQYAEPS\HVEDKGH KYLVEANTGTENG YQGEESLF NKAYYGGGTNFFRKESQKLQ SAKKRDAELANGALGIELNND YTLKKVMKPLTSTNTVTDEIER ANVFKMNGK WYLF TDSRGSK MTIDGINSNDIYMLGYVNSLT GPYKPLNKTGLVLQMG LDPND VTFTYSHFAVPQAKGN NVITS YMTNRGFFEDKKATFAPSFLM NIKGNKTSVVKNSILEQGGQLTW LQVAKRAGLGGGSGRTVLRE RVRIEIASTHIALAVECVSVRV WKVPRLPSRQKYAKHASQLVS NQKSEEEYMKTFNISQQDLEL VEVATEKITMLYEDNKHVGA AIRTKTGEIISAVHIEAYIGRVTV CAEAIAIGSAVSNQKDFDTIV AVRHPYSDEVDRSIRVIPTYGT DEWEQWWNAFNEENLFCSEE MPSSDDEATADSQHS TPCKKR KYIYVLVIAITMVMRFWQYING
23147	53515	A	23281	299	457	
23148	53516	A	23282	584	1185	QQR*MCQNLMTHQNRSGR SQNDF*RRRKNISERSAVYR*R QLYIRRPQYAEPS\HVEDKGH KYLVEANTGTENG YQGEESLF NKAYYGGGTNFFRKESQKLQ SAKKRDAELANGALGIELNND YTSEKSNEAADHFKHVPQAKG NNVITSYMTNRGFFEDKKATF APSFLMNIKGNKTSVVKNSILE QGGQLTVN
23149	53517	A	23283	1	3618	
23150	53518	A	23284	191	819	VNVTSGSRPICSTSPVLFSGL* GPVKEFDT*PSM*ISFELPSIVIF EPRESVNKYHLPILKTFARSISS VTVFEVISGFITFFNV*SLFNSMI PRAPFANSASRFLALC*SFWLSL RKKFVPPP*YALLNKDSSPW/SS VFCSRVGFEYKVFMAFVFNVV RVSQRMVVAGCIAFIDKLLNV LICFSVSVKNRVIFHSVDFECV

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23151	53519	A	23285	2	2556	WRKIYQAN/GKTKKAGVAILVS DKTDFKPTKIKRDKEGHYIMVK GSIQQEELTILNIYAPNTGAPRFI KQVLSDLQRDLDSYTIIMGDFN TPLSLDRSMRQKVKNKNTQEL NSALHQADLIDYRTLHPKSTEC TFFSAPHMHYSKIDHIVGCKAL LSKFKRTEIITNCLSDHSAIKLEL RIKKLTQNCSTTWKLNLLND YWVHNEMKAEIKMFFETNENK DTTYQNLWDTFKAVCRGKFA LNAHKRQKERSKIDTLTSQKE LEKQEQTHSKASRRQEITKVRA ELKEIETQKTLQKINEFRSWFFE RINTIDRPLARLIKKEKREKNQID AIKNDKGDITDPTETQTITREY YKHLIYANKLENLEEMDKFLDT YTLPRNLQEEVESLNRPIGSGI VAHINSLPTKKSPGPDGFTAEFY QRYKEELVPFLLKLFQSIIEEGI LPNSFYEASIIPLKLRDIAKKE NFRPISLMNIDAKILNKILAHRI QQHIKKLIHHDQVGFIPGMQG WFDIRKSINVIQHINRTKDKNH MIISIDAEKAFDKIQPFMLKTL NKLVLVLELVRAIRQEKEIKCIQL GKEEVKLSLFADDMIVYVENPI VSAQNLLKLISNFSKVSQYKIN VQKSQAFLYTNNRQTESQIMSE LPFTIASKSIKYLGIQLTRHVKD LFKDNYPALNEIKEDTNKWK NIPCSWIGRINIVKELEKTTLNI
23152	53520	A	23286	1	3087	
23153	53521	A	23287	1	741	MLGKKKPVCEVGGDSGVPKKE FQEGRQVLFKLWRGQANKVG DNSIDSWKNAGRVFKDSKDF ANDPILKDQTQEWSGSATFTSD GKIRLFYTDYSGKHGKQSLTI AQVKVSKS/V*HTQNQRSGRSQ NDF*RRRNIS*RSAYR*RL YIRROPYAERPSHVEDKGHKY LVFEANTGTENGYSQGEESLFPK AYYGGGTNFFRKESQKLQSA KKRDAELANGALGIIELNNDYT LKKVVKPLITSN

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23154	53522	A	23288	849	1688	QQR*MCQNLMTHQNPQSGR SQNDF*RRRNISERSAVYR*R QLYIRRPYAERP\HVEDKGH KYLVEANTGTENG YQGEESLF NKAYYGGGTNFRKESQKLQ SAKKRDAELANGALGIELNND YTLKKVMKPLITSNTVTDEIER ANVFKMNGKWYLFDSRSGK MTIDGINSNDIYMLGYVNSLT GPYKPLNKTGLVLQMGDPND VTFYSHFAVPQAKGNVVTITS YMTNRGFFEDKKATFAPSFLM NIKGNKTSVVKNSILEPQQLAV
23155	53523	A	23289	1	3171	MVKGSIQQEELTILNIYAPNTG APRFKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDYRTLH PKSTEYTFFSAPHHTYKIDHIL GSKALLSKCKRIEITNYLSDHS AIKLELRINKLTQSRSTTWKLN NLLNDYVWHNEMKTEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAYKRKEERSKIDTL TSQLEKEKQEQRHSKPSRRQE ITKMRaelKEIETQ
23156	53524	A	23290	1	3255	
23157	53525	A	23291	1	3924	
23158	53526	A	23292	1	3139	
23159	53527	A	23293	1	3210	MVKGSIQQEELTILNIYAPNTG ALRFKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDYRTLHPKS TEYTFFSAPHHTYKIDHIVGSK ALLSKCKRTEIITNCLSDHSAIK LELRINKLTQNRSTTWKLNLL LNDYVWHNEMKAEIKMFFETN ENKDTTYQNLWDTFKAVCRGK FIALNAHKRQERSKIDTLTSQ LEKEKQEQTHSKASRRQEITKIR AELKEIETQ
23160	53528	B	23294	1	3127	
23161	53529	A	23295	1	3325	
23162	53530	A	23296	1	3145	

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23163	53531	A	23297	191	819	VNVTSFGSRPICSTSPVLFSGL* GPVKEFDIT*PSM*ISFELIPSVIF EPRESVNKYHLPLFKITFARSISS VTVFVVISGFTFFNV*SLFNSMI PRAPFANSASRFLALC*FWLSL RKKFVPPP*YALLNKDSSPW/SS VFCSRVGFEYKVFMAFVFNVV RVSQRMVAVAGCIAFIDKLLNV LICFSVSVKNRVFIHVSDFECV
23164	53532	A	23298	1	3352	QQR*MCQNLMT*HQNRSGR SQNDF*RRRNISERSAVYR*R QLYIRROPYAEPSIHVEDKGH KYLVEANTGTENGYYQGEESLF NKAYYGGGTNFFRKESQKLQ SAKKRDAELANGALGIELNND YTLKKVMKPLITSNTVTDEIER ANVFKMNGKWYLFDSRGSK MTIDGINSNDIYMLGYVNSLT GPYKPLNKTLGLVQMGLDPND VTFTYSHFAVPQAKGNVNVITS YMTNRGFFEDKKATFAPSFLM NIKGNKTSVVKNLSILEQGQLTV
23165	53533	A	23299	1841	2679	
23166	53534	A	23300	1207	1533	YVHCKPSGWTVRTFDKPRKRFI AFFIAGILFRAIKNHFLPRETLQ CLPYILTGFRRGQSEYFSIFSNM DLADTVML*GAIRFSDLVNEQ IQHTFLIPGETICRLSEVV
23167	53535	A	23301	1	3253	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQGLDIDYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKWKRTEIITNYS DH SAIKLELRKLNLTQSRSTTWKLN NLLNDYVWHNEMKAEIKMFF ETNENKDDTTYQNLWDAFKAVC RGKFIALNAHKRKQERSKIDTL TSQLEKELEKQETHSKASRRQE ITKIRAELEKIEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
23168	53536	A	23302	1	3095	
23169	53537	A	23303	2	2678	

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23170	53538	A	23304	1	3335	MVKGSIQQEELTILNIYAPNTG APRFKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDYRILH PKSTEYTFSSAPHHTYSKIDHIV GSKALLSKCKRTEITNYLSDHS AIKLELRKIKNLQSRSTTWKLN NLLLNNDYVWHNEMKAIEKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNVYKRKQERSKIDTL TSQLKELEKQEQTTHSKASRRQE ITKIRAELEKIETQ
23171	53539	B	23305	1	2293	
23172	53540	A	23306	1	3810	
23173	53541	A	23307	255	1215	CVGQLAAAKR*RNSS*IQRLSR CVCSCGKPERR**HINLHVLSK GRRQLN/QTAGKTRAVSLKTAI SSTPTIRS*KIRKNGPVLPPLH LTEKSVYSTLTPTKAINLYSK PTREQKTDTKAKNLYLTKRTT AAARTSSVKKARSFSAALKNA MLS*RTAPSVS*S*IMITH*KK** SR/CITSNTVTDEIERANVFKMN GKWYLFDTSRGSKMTIDGINSN DINMLGYVVSNSLTGPYKPLNKT GLVLQMGDPNDVTLTNSHFA VPQAKGNNVVITSYMTNRGFF EDKKATFAPSLMNIKGNKTSV VKNSILEQGQLTVN
23174	53542	A	23308	1	4539	
23175	53543	A	23309	1	3229	
23176	53544	B	23310	1	3552	
23177	53545	A	23311	1	3139	
23178	53546	A	23312	1	3057	
23179	53547	A	23313	1	3215	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSLEREDIQTGKE VENFEKNLEECITRITNTEKCLK ELMELKTKARELREECRLSR CDQLEERVSA MEDEMNMKRE GKFREKRIKRNQESLQEIWDYV KRPNLRLIGVPESDVENGTKLE NTRLDIIQENFPNLARQANVQIQ EIQRTPQRYSSRRATPRHIVRFT KVEMMEKMLRAAREKDRSTRQ KVNKDTQELNSA



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23180	53548	A	23314	1	1921	MVKGSIQQEELTILNTYAAHTG APRLIKQVLSDLQRDLDSHTIIM GDFNTPLSTLDRSTRQKVNKDT QELKSALHQADLTDIYRTLHHK STEYTFESAPHHIYSKIDHILGSK ALLSKCKRTEIHTNYLSDHSAIK LELWIKNLQNHSTTWELNNLL LNDYVWHNEMKAIEKMFFETN ENKDDITYHNLWDTFKAVCRGK FIPLNAHKRKQERSKIDTLTSQL KELEKQEQTNHSKASRRQEITK IRAELEKIEQTKTL*KINESRSW FFERINKIDRLLARLIKKKREKN QIDAINKNDKGDTTDPTEIQTIR EYCKHLYANKLENLEEMDKFL DTYTLPRLNQEEVESLNRPIGT AEIVAIINSLPTKKSPGPDGFTA KFYQRYKEELVPFLKLFQSEK EGILPNSFYEASILIPKGRDIT KKENFRPISLMNIDAKILNKKL AKRIQQHIKKLIHHDQVGFIPG MQGWFNIRKSNVQIHINRAKD KNHMIISIDAIEKAFDKIQPFML KTLNKLGIKYLGIHLTRDVKDL FKENYKPLLKEIKEDTNKWKNI PCSWVGRINIVKMAILPKMCL* RRWTPCLLTAASLNRE*ERL VQPLLWRQMYCGPRHCRQVPQ HRRLNWSPSLRLS
23181	53549	B	23315	1	2907	
23182	53550	A	23316	584	1278	QQR*MCQNLMT*QNQRSGR SQNDF*RRRNISERSAVYR*R QLYIRRPYAERPSHVEDKGH KYLVEANTGTENGYQGEESLF NKAYYGGGTNFRKESQKLQ SAKKRDAELANGALGIHLLNND YTLKKVMKPLITSNVTDEIER ANVFMNGKWYLF*DSRGSK MTIDVPQAKGNVVTISYMTN RGFEDKKATFAPSLMNIKGN KTSVVKNSILEQGQLTVN
23183	53551	A	23317	1	3345	

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23184	53552	A	23318	2	3366	WRKIYQANGKQKKAGVAILVS DKTDFKPTKIKRDKEGHYIMVK GSIQEEELTILNIYAPNTGAPTFI QQVLSDLQRDLDSHTLIIGDFN TPLSTSDRSTRQKVNKDTQELN SALHQADLIDIRTLHPKSTEY FFSAPHHTYSKIDHILGSKALLS KCKRTEIITNYLSDHSIAIKLELM IKNLTQNHSTIWKLNNLLNDY WVHKEMKAEIKMFFETNENKD TTIYQNLWDTFKAVCRGKFIAL NAHKRKQER
23185	53553	A	23319	1	2611	MGDFNTPLSTLDRSTROKANK DTQELNSALHQVDLIDIRTLH PKSTEYTTFSAPHHTYSTTDHIL GSKALLSKCRRTEIITNYLSDHS AIKLELRINKLTQNRSTTWKLN NLLNDYGVHNEMKAEIKMFF ETNENKDTTYQNLWDTFKAVC RGKFIALNAHKRKQERSKIDTL TSQKLEKEQEQTHSKASRRQE ITKIRAEKKEIETQKTLQKJNES RSWFFERINKIDRPLARLIKKKR EKNQIDAINKDKGDITDPTEIQ TTIREYYKHYANKLENLEEM DKFLHTYTLPRLNQEEVESLNR PITGSEIVAIINSLPTKSPGPDG FTAEDQRYKEELVPFLLKLFQ SIEKEGILPNSFYEASILIRKPGR DTTKKENFRPISLMNTDAKILN KILAKRIQQHIKKLIHHDQVGF PGMQGWFNIHKSINVIQHINRA KDKNHMIIISDAEAFDKIQPP MLKTL SKLGIDGTYFKIIRAIYD KPTANILNGQKLEAFPLKTGTR QGCPSPLLFNIVLEVLAIRIQ EKEIKLISNFSKVSQYKINQKS QAFLYTNNRQTESQIMSQLPFTI ASKRIKYLGIQTRDVKDLFKE NYKPLLKEIKEDTNKWKNIPCS WVGRINIMKMAILPKVIYRFNA IPIKLPMTFFTELEKTTFKFIWN QKRARITKSILSQKNKAGGITLP DFKLYYKATVTTKTAWYWYQN

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23186	53554	A	23320	1	3099	MGELITPLSLDRSTRQKVNKD TQELNSALHQQGLDIYRTLHP KSTEYTFFSAPHHTYSKIDHILG SKALLSKCKRTEIITNYSLSHSA IKLELRINKLTQNRSTTWKLN LLNDYWIINEMKAEIKMFFET NENKDTTYQNLWDAFKA VCR GKFIALNAHKRQKERSKIDTLT SQLKELEKQEQTHSKASRRQE TKIRAELEKETQKTQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
23187	53555	A	23321	911	1539	VNVTSFGSRPICSTSPVLFSGL* GPVKEFDT*PSM*ISFELIPSVIF EPRESVNKYHLPFILKTFARSISS VTVFVISGFTFFNV*SLFNMI PRAPFANSASRFLALC*SFWLSL RKKFVPPP*YALLNKDSSPW/SS VFCSRVGFEYKVFMAFVFNVV RVSQRMVVAGCIAFIDKLLNV LICFSVSVKNRFVIFHSVDFECV
23188	53556	A	23322	191	820	VNVTSFGSRPICSTSPVLFSGL* GPVKEFDT*PSM*ISFELIPSVIF EPRESVNKYHLPFILKTFARSISS VTVFVISGFTFFNV*SLFNMI PRAPFANSASRFLALC*SFWLSL RKKFVPPP*YALLNKDSSPW/SS VFCSRVGFEYKVFMAFVFNVV RVSQRMVVAGCIAFIDKLLNV LICFSVSVKNRFVIFHSVDFECV
23189	53557	A	23323	965	5050	TWKGTSTSRCKIMPKYRSTRQ KVNKDTQELNSALHQADLIDY RTLHTKSTEY/TFFSAPHHTYSK IDHIVGSKALLSKCKRTEIITNY LSDHSAIKLELRINKLNQSRSTT WKLNNLLNDYVWHNEMKAE IKMFFETKENKIDTTYQNLWD AFKA VCRGKFIALNAHKRQK RSKIDTLTSQLKELEKQEQTHS KASRRQEITKIRAELEKETQKT LQKINESRSWFFERINKIDRPLA RLIKKKREENQ
23190	53558	A	23324	1	2787	
23191	53559	A	23325	1	902	
23192	53560	A	23326	1	3640	

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23193	53561	A	23327	1	3686	MHIVVETALSASWQNKAKPPA RVLLQVVPNVWFLVAVVWEL YPSL.DLMDSIECSSSPATEQS WTENDYDKLREEGFRRSNYSE LQEDIQTKGKDVENFEKNLEEC ITRITNTQKCLKELMELKTKAR ELREECRLRSRCDQLEERVSV MEDEMNMKQEGKFREKRIKR NEQSLQEIWDYVKRPNRLRIGV PESDGENGTCLKNTLQDIIQENF PNLARQAKVQIQEIQRMPQRYS LTRATPRHIIIVRFTKVE
23194	53562	A	23328	1	3433	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLSDHS AIKLELRINKLTQNRSTTWKLN NLLNDYVWHNEMKAEIKMFF ETNENKDDTTYQNLWDAFKAVC RGKFIALNAHKRQERSKIDTL TSQLKELEKQEQTHSKASRRQE ITKIRAELEJETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDAIKNDK
23195	53563	A	23329	1	3070	MEGEMNMKREGKFREKRIKR NEQSLQEIWDYVKRPNRLRIGV PESDGENGTCLKNTLQDIIQENF PNLARQANVQIQEIQRTPQRYS SRRA TPRHIIIVRFTKVEKEM LRAAREKDRSTRQKVNKIDTQE LNSALHQADLIDIYRTLHLKSTE YTFFSAPHHTYSKIDHILGSKAL LSKCKRTEIITNYLSDHSAIKLE LRINKLTQNRSTTWKLNLLN DYVWHNMKAEIKMFFETNEN KDDTTYQNLWDA

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23196	53564	A	23330	3	2372	TTNCLSDHSAIKLELRRIKKLTEN HTTTWKLNNLLNDYVVDNE MKAIEIKMFFEINEKK\DTTSQNL WDTFKA VCRGKLIALLNAHKRRK QERSKIDTLTSQKK\LEKQEQ NSKASRKQEITKIRAELEIETQ KKTLLQKINESRWFFKINKIDG PLARLIKKKREKNQVDAIKNDK GDIITDPTMQTTIREYYKYLY ANKLENLEEMDKFLNTYTLQR LNQEGIESLNRPTGSEIEAIINSL PTKKSPGPDGTFKQFYQRYKEE LVYPEPRSESECLSNIREFLRGC GASLRLESIREDRNGRSQKT VH TEGDMNMNIKKIVKQATVLT TTALLAGGATQAFAKENNQKA YKETYGVSHITRDHMLQIPKQQ QNEKYQVPQFDQSTIKNIESAK GLDVWDSWPLQNADGTVAEY NGYHVVFALAGSPKDADDTSI YMFYQKVGDNISDSWKNAGR VFKDSDFDANDPILKQDQTE WSGSATFTSDGKIRLFYTDYSG KHYGKQSLTTAQVNVSKSDDT L KINGVEDHKTIFDGDGKTYQN VQQFIDEGNYTSGDNHTLRDPH YVEDKGHKYLVFEANTGTENG YQGEESLFNKAYYGGGTNFFR KESQKLQQSACKRDAELANGA LGIIELNNDYTLKKVMKPLITSN TVTDEIERANVFKMNGKWYLF TDSRGSKMTIDGINSNDIYMLG
23197	53565	A	23331	2	2987	APRFIKQVLSDLQRLDSHTIIM GDFNTPLSTLDRSTRQKVHKDT QELNSALHQADLIDYRTLHPK STEYTCFSAPHHTYSKIDHIVGS KALLSKCKRSEIITNCLSDHSAI KLELRRIKLTQNRSTTWKLNLL LLNDYVWHNEMKAIEIRMFET NENKDTTYQNLWDTFKA VCRG KFIALNAHKRRKQERSKIDTLTS QLKELEKQEQTTHSKASRRQEIT KIRAELEIETQKTL\QKINEISR SWFFERINK
23198	53566	A	23332	339	701	PDKEGNEIWDVDMYTVKPSGWT VRTFDKPRKRFIAFFIAGILFRAI KNHFLPRETLQCLPYILTGFRRG QSEYFISFNMDLADTMVFL*G AIRFSDLVNEQIHTFLIPGETIC RLSEVV
23199	53567	A	23333	190	502	

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23200	53568	A	23334	4472	8032	KKSGNNRLMRVHGKRLFLWQ KQGVCEVEIQARESARDGTD REDAESPHAEVTVPRGTRTEILT LWASDRDPASACGVTVPKGST THPGGMDRVCGVDTAVLHWM KQVQGISNLEVTGPRRRDMD EAGSRHSQQTNIGTENQTPHVL THKWQLNRNSACDKLHKPHSV PGGVAAGDVGGKTSINPGVCAI EYQVDGSPHIWEDVNKGVIIEE DRAPLMERSSSPAMEQSWMEN DFDELREEGFRSSNYSELRED
23201	53569	A	23335	1	2374	MVSIIDLVICPPRHPKVLGLQGP PGLDSIDPSAGAGFLDWEIG MPGPGRAGHQALCKDCQCLE KTTTKAPGKMPKSTRSGPVRV RLADGPNRCAGRLECGMPDAG EQCVMTTGTSGRHCGLLGTGL WKGYTDLTHIPPGPGTPPQERTC QGDYHSGGTWTHSPLETTTRP GSSSPAIRRLPAQMLLLPARPPH PRSSSPEAMDPPPKAPFPKAE GPSSTPSSAAGPRPPRLGRHLLI DAN/GVYPYTYTVQLEEEPRGP PQREAPPGEPPRKGYSCPECA RVFASPLRLQSHRVSHDLKPF TCGACGKAFKRSSHLSRHRATH RARAGPPHTCPLCPRRFQDAAE LAQHSWGTPRGPLLAAACNCE VARGRLSPGPERLLHGYGGRE EEGGWGRAAGGLDRVEGFISS KAHHYLLIDTQGVPTVLVTRS HRGSQGPVGLQARKVLQLPRV LKGLRVHVLQRHSITHSEVPQ DFAGSLDSFQTPGESLRLVFRA LDTTQSSRISKAEPCLKEEPLSL GDLPYMHTTLCFCRKRASPGP GTLQRGALAWPDWASPRALPV PSLSSTTRSPAAPLFAVPLSGRT TQAMAFDGHIFQGQSQRASGLT TTSRFLACQRLRLCAWWASRS PRCTLRPPVGLRPGVIHPRRLV YRDLKPNVMASGQPRDRPQP WFAWPPRPRTRFCGGCWTLTPK

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23202	53570	A	23336	853	1602	PGAAWSRDLRGCTCEPQPALR MLVLASPCQPLAFSSVETMEG PPRRTCRSPPEGPSSSISGPQASS PPRPNHLLIDTQGVPTVAV/ LDEESQREPGASGAPGQK KCYS CPVCSR VF EYMSYLQRH RFSH SEVKPFECDICGKA FKRSQHL/ SARHHSIHLGGWVG GPTACRF C PRRFRDAGELAQHSRVHSGER PVSVSTLPSPLYGAETHAETHA VEASHEAGLPGAPGTHRTLQG ALDSCPDW
23203	53571	A	23337	1	1144	MGHHLMDKLVALGGLYYAIQ RHYATKCSVLKNDQILVIGLFM IQNVIRKHFANPLSALFLQQGI ELFAAIAEIHITVAERNHAITQI RLEAQITFDSLKEWHNAIRKSL DYEALQAFEFVVGATDRGFPAL SSEALVRVLVDANDNSPFVLY PLQNGSAPCTELVPRAAEPGYL VTKVVAVDGDSGQNAWLSYQ LLKATEPGLFGVWAHNGEVRT ARLLSERDVAKHRLVVLVKDN GEPPRSATATLQVLLVDGFSQP YLPPLPRAAPAAQAADSLTVYL VVVALASVSSLFLFSVLLFVAVR/ LCRRSRAAPVGRCSVPECFPFG HLVDVSGTGTLSSQSYQYEVCLT GGSGANEFKLPVIPNLLSRDS
23204	53572	A	23338	1	1260	MVCYIQENLPFLKPSVENFYIL ITEGALDREIRA EYNITITVDTL GTPRLKTEHNITVLVSDVNDNA PAFTQTSYTLFVRENNSPALHIG SVSATDRDSGTNAQVTSLLPP QDPHLPLASLV SINADNGHLFA LRSLDYEALQAFEFVVGATDRG SPALSREALVRVLVDANDNL/ PFVLYPLQNGSAPCTELVPRAA EPGYLVTKVVAVDGDSGQNA WLSYQLLKATEPGLFGVWAHN GEVRTARLLSERDAAKHRLVV LVKDNGEPPRSATATLHVLLVD GFSQPYLPLPEAAPAAQAQAEAD LLTVYL VVALASVSSLFLLSVL LFVAVRLCRRSRAASVGRCSM PEGFPGRGLVDVSGTGTLFQSY QYEVCLTGGSETGEFKLKPITP HLPPHRRGGKEIEENSTLPNSFGF

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23205	53573	A	23339	123	5794	SSDSGSLKGACTEVKMEPAGE RFPEQRQVLLILLLEVTLAGW EPRRYSVMEETERGSFVANLAN DLGLGVGELAERGARVVSSEDN EQGLQLDLQTGQLILNEKLDRE KLCGPTEPCIMHFQVLLKKPLE VFRAELLVTDINDHSPEFPERE MTLKIPETSSLGTVFPLKKARD LDVGSNNVQNYNISPSHFHVS TRTRGDGRKYPELVLDTELDRE EQAELRLTLTAVDGGSPPRSGT VQILILVLDANDNA
23206	53574	C	23340	20	313	
23207	53575	A	23341	119	247	RSRCISASPRRPASFRKSIPEEED ESLNI*KGQVSILFFYIK
23208	53576	B	23342	55	288	
23209	53577	A	23343	1	3576	MAFLFEFSDLVSLLSIGTMLAY SLVAFSVLVLRYQPDENFSKNE KPKEEVVEMNSVPKAESPACVP EASSTPASLWSPVSTIPTPRWGR IVYGCAFLLVLLSMLCLVLAH WPKRLFSGELIYIAAAVLLVLI VGFTFTVWRQPSQNTPLYFKPP HISTSQNLSLPEHPMEYLLRTGI EPDVRGVLTVNALPAGPPVACS PLVSISAHVYLMQMATTETWA QCGVWMLIALECPNLKLLKPP WLHMLAMTMYA



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23210	53578	A	23344	3	1762	SVRPGPGHVRVRFSLSPPLR PWPLCPAARRTMGSILSRRIAG VEDIDIQANSAYRYPPKSGNYF ASHFFMGGEKFDTPHPEGHLFG ENMDLNLFLGSRPSQFPYVTPAP HEPVKTLRLSLVNIRKDSLRLVR YKDDADSPTEGDGKPRVLYSL EFTFDADARVAITICYQASEEFL NGRAVYSPKSPSLQSETVHYKR GVSQQVSLPSFKIDFSEWKDDE LNFDLDRGVFPVVIQAVVDEG/ DSVVEVTGHAHVLLAGFEKHM DGSFSVKPLKQKQIVDRVSYLL QEIFYGIENKNNQETKPSDDENS DMSNECVVCLSDLRDTLILPCR HLCLCTSCADTLRYQANNCPIC RLPFRALLQIRAVRKKPGALSP VSFSVLAQSLHDEHSCPFKK SKPHASPLASKKPKRETNDSV PPGYEPISLLEALNGLRAVSPA PSAPLYEEITYSGISDGLSQASC PLAAIDHILDSRRQKGRPQSKAP DSTLRSPPSPHEDDEKLSEDV DAPPLGGAELALRESSSPESFI TEEVDESSSPQGGTRAASIENVL QDSSPEHCGRGPPADIYLPALG
23211	53579	A	23345	35	3134	RPREGPTWPQLPGSSPRRLFPW SPGSSSRGLFPWSPGSSSRGLF WSPGSSSRGLFPWSPGSSSRGLF PWSPGSSSRGLFPWSPGSSSRGL FPWSPGSSSRGLFPWSPGSSSR GSSRGHPGPPPGSSRGHPGPPP GALPVVTRVLLPGLFPWSPGSS SRGLFPWSPGSSSRGLFPWSPGS SSRGLFPWSPGSSSRGSRGHPG PPPGALPVVTRVLLPGLFPWSP GSSSR/RTLPPVTRLLSGTLVP VTRVLL
23212	53580	A	23346	3	91	
23213	53581	A	23347	3	174	
23214	53582	A	23348	3	360	
23215	53583	B	23349	158	368	

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23216	53584	A	23350	3786	4928	PPPARTRPCASLTPEKAKWWRSS KPGLTRAPARGLSSPQTGSCS APASAG*VSGNSRSGTRRGLRP TRG*GPCGPSSRAAIISSPRAS/L RMSQRELGLWDPNNFEEPVAL QEMDTNSGVLLPFYDPSSIVY LCGKVLTAGQGEQGTGWRCG GPCPGAPLNRLLQGDSSIRYFEI TDEPPFVHYLNTFSSKEPQRCGM GFMPKRGLDVSKCEIARFYKLH ERKCEPIHMTVPRKSDLFQDDL YPTDPGPEPALEADEWLSGQD AEPVLISLRDGYVPPKHREL RV TKRNILDVRPPSGPRRSQASDA PLSVRSALLHSGPIYISPNRPYTT RPLCPPPQQHTLETLL EEIKAL RERVQAQEQRITALENMLCELV
23217	53585	A	23351	1	1898	MSRKGPRAEVCADCSAPVGPD FALAISELVSPDIFMQSHSENAIS VKEIVTIESISQGVGQIQLKGD LPNPCHTPKKNSIHELL LERAQT PENKPGHMEQDEDSCTAQPEL AKDSGMCNPEGCLTTHSIAIDL EEGEQLRGNKSSRAQGCTQNS KNDSSVADLAPKGSDEAPPEH SFVLKEPEMSKGGKYSGSEA GSLSHSEQNATVPAPRVLEFDH LPDPQEGPGPEASNLKVSQKS EGSQSSSRSPLEFLKEAGVPNQ TLSSGTPDPYFMAILGPKLNSR RPHLHPVSHTLDLGNPPLPQQ FAKQCRGRKGPEGKYPLHYLV WHNRHRELEKEVRAGQTLITQ TLSQANPTAITAE EYFNPNFELG NRDMGRPMELTTKTQKFKA WLCEEHPLSLCEQVAPIIDLMA VSNALFAKL RDFITLQIPFHILN ARITFGNLNGCDEPVPSVRGSPS SETPSGSDSSSVSSSSSTSEAPR ENACPSALPGVASCRCGEISPAL FEAPRGYSMMGGQREAAATRDD DDDLLQFAIQSSLLEAGSEYDQ VTIWEALNSKPGTHPMSYE/R SPTGQGVPAATCSG/R YDEQL RLAMELSAQEQEERRRRARQE EEELERILRLSLTEQ
23218	53586	A	23352	341	711	

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23219	53587	A	23353	57	719	TSDLMAEIIQERIEDRLPELEQL ERIGLFSHAEIKAIKKASDLEY KIQRRTILFKEDFINYVQRIGYSF KKDEIENSIVHRVQGVFQRASA KWKDDVQLWLSYVAFCKKWA TKTRL SKVFSAMLAHNSNKPAL WIMAAKWEMEDRLSSESARQL FLRALRFHFPECKLYKEYFRM ELMHAGKTGGRRLNKKPV WMWRILILKKSLRASWHGSST
23220	53588	A	23354	27	352	TESVVTIMSLNKKPKSEMTPEE REEEEFNTGPLSVLTQSVKNNT QVLINCRNNKKLLGRVKAHDR HCNMVLEINVKEMLTEG/DRYI SKMFLAGDPVIVVLRNPLIAGK
23221	53589	A	23355	32	575	STRLDLPKCWDVRSILFNKP EMTPAEELQKREEVEFNTGPTP LCLTQSVKNNTQSAQSTCRNN KKLPGAA*RPFDRA SPCCPPGT CNMVLINVKEMWT*GTQEV GKGKEGSSKPVNKRDLTSSKM FPGGGGFSSVPCGNPFHSAG QIRGPPVLFDKNSHPLVLLKTA CHLVFENY
23222	53590	A	23356	103	713	VTSGCGKKKVVWDPNETNEIA NANFRSADPRLIKDGLIIRKPV TVHSRARLPEKTPLARCKGHG TLGIGKRKGTANARMPKEGHH GMRRMRILAPACSRRYRESKKI DRHMYHSLYLKVKGVNFKNK ADFSWEIHKAEGRARPRKEAS WLDQAEARRSKDQKGHGKRR EERLPGQRKEINQRLYSKEGR RPRNKNLTL
23223	53591	A	23357	1	2847	
23224	53592	A	23358	1	2823	
23225	53593	A	23359	3	2858	AMFGFQRRGLGTPRLQLWLLL LEFWEVGSGQLHYSVSEEAH GTFVGRIADLGLLELAELVQRL FRVASKTHGDLEVNQNGILF VNSRIDREELCGQSAECSIHLE IVDRPLQVFHVNVVEKDINDNP PVFSLREQLLIAESKQSDSRFP LEGASDADIEENALLTYRLSKN EYFSLDSPNTNGKQIKRLSLJLKK SLDREKTPELNLLLTATDGGKP ELTGTVRLLVQVLVDNNDNPE FDKSEYKVSMLMEN

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23226	53594	A	23360	194	931	NSPVVPVMSAGQFVNKLQEEVI CPICLDILQKPVITDCGHNFCPQ CITQIGETSCGFFKCPLCKTSVR\ RDAIRFNSAVAIEIWWKEIQALQ ASEVQSKRK\EA TICPRHQEMF HYFCEDDGKFLCFVCRESKDH KSHNVSLIEEAAQNYQGQIQEQ IQVLQKKEKETVQVKAQGVHR VDVFTDQVEHEKORILTEFELL HQVLEEEKNFLLSRIYWLGHGEG TEAGKHVYEIPLMPTVERSQEA
23227	53595	A	23361	2	381	AINWTSARPVSQCDWPCPPSQ VVCLAGLPP*RVQCNPVKGP/N CPLAHTSEPTGHCLL*TRGMCF PSLCGQLCP*SGPPDCPSRALH HTGFCPVALLVAESQVRARAC GPEPHRAGRASRWCLHAG
23228	53596	A	23362	213	574	PQTHGTGNHSEGRQPITRSPEKP EPICPSKRAPQTQQP/PWAPSLC PPALGPCKGTRRPRVQVHRPTS SQKCPLPAWFHHLPLWPTSAAR SSSTETPTGQQMRKL RHPAAPR SANALSLGE
23229	53597	A	23363	21	456	
23230	53598	A	23364	2	98	
23231	53599	A	23365	64	241	PWPLASNPRGCLP*PSTLN*PTP SSQPGMSLDSLDRHPP*TRETAS GIGGQRPGSDPARTPHFISQTQ
23232	53600	A	23366	209	353	

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23233	53601	A	23367	1766	3292	SSCPTRVLIMKGAGHPCYLDK PEEWHITGLDFLQGLQLWLMH MQQLMSLAVVSGRLSRGQCGT ERPSRRRAAAAAAGQFQRGHF QHIEERLETNVQNCQSPDTLCP THCSPVLNEPCPEVSVAVAPA SPDRMSGSDGLEEEPELSITLT LRMLMHGKEVSGIIGKKGETV KRIREQSSARITISEGSCPERITTI TGSTAAVFHAVSMIAFKLDEDL CAAPANGGNVSRPPVTLRLVIP ASQCGSLIGKAGTKIKEIRETTG AQVQVAGDLLPNSTERAVTVS GVPDAILLCVRQICAVILEGFSV QQQYGA VTPAEVTKLQQLSSH AVPFATPSVVPGLDPGTQTSSQ EFLVPNDVSRGWDGWRLIGCVI GRQGVTKINEIRQMGAHIKIGN QAEAGAGERHVITITGSPVSIALA QYLITACLETAKSTSGGTPSSAP ADLPAPFSPPLTALPTASPLAC WAHPMPSPSPTLIGFKAHALLG FTTCFPRAAAGLGLHRQDGSS
23234	53602	B	23368	1	363	
23235	53603	A	23369	486	947	LDGAGLLAPVKAHLQKKGPRL GTRGCAMPRLGSTPFLKGQCL ANSRNTLEAVSLTESSASRVPP APVLGSRPPHSPSPWP/P/YTYP VPPPPRMALVPPNMHGQGTVG LTSVPLACTVAMLGSYKQAGA FGPLANCYGGGLGHAQCWQGEF CPTQCP
23236	53604	A	23370	38	680	GSRLRLQAAAAARPALPLPLPP WEWKHLPHVPEAKWWLTTAR HSAAYRADPLRVSSRDKLT AASSQGNFEGNFESLDLAEFAK KQPWWRKLFQGESGSPSAEKYS VATQLFIGGVGTGWCTGFIFQKV GKLAATAVGGGFFLLQLANHT GYIKVDWQRVEKDMKKAKEQ LKIRKSNQIPTEVRSKAEVVSF VKKNVLT\GGGFFGFLGMS
23237	53605	C	23371	30	200	
23238	53606	A	23372	14	161	

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23239	53607	A	23373	69	715	APALPGCEHMMAIRLKVCLL GDTGVGKSSIVWRFVQDHFHDH NISPTIGASFMKTVPWENDFD KFLIWDTAGQERFSFIGLPLYY RLQLAAVYSCYGYLPSRDFIFIT LKEWVVKRLKELGPNIVMAI AGNKCDLSDIREVPPEGMLKE YVAESIGAIVVETSAKNAINIEE LFQGISRQIPPLDPPMKNGKQW DHQKLRSQPMQASRRCC
23240	53608	A	23374	3	293	VTSTMAYRAQGQKVQKVMV QPINLIFRYLQNRRIQVWLYEQ VNMRIEGCIIGFDEYMNVLVDD AEEIHSKTKSRKQLGRIMLKGD NITLLQSVSN
23241	53609	A	23375	3	393	HESCSQRQRAGCALCENSHPW RSRGPVQKSAEGLWCQPICT SSSRYLQNRJAGFQVWLYEQV NMRIEGCIIGFDEYVNLVDD AEEIHSKTKSRKQLGRIMLKGD DNITLLQCTLPPRMVHGSGEIV
23242	53610	C	23376	129	425	
23243	53611	A	23377	470	635	ENSSSHHIKPFSSGCSIHGFSGH INVTSVTIL*PIKSCHIRCHF*CA QYMVADN
23244	53612	A	23378	71	566	PLFFPCLSPVAVAGWARGHMLG QSHQQVAAPLKHRIPTTELCLQ KCLSLIKTKFLNAYITVSEEA LKHAESEKRYKNGQSLGDLD GIPIAEKDNFSTSGIETTCA SNM LKGYIPPYNATVDQKLLDQGA LLMGKTKLNDFAMGSGSTDGV FGPVKNPWSYSK
23245	53613	A	23379	255	1042	ILAAARMGKQNSKLRPVEMQDL LESTDFTEHEIQEWYKGLRDC PSGHLSMEEFKKIYGNFFPYG/D ASKFAEHVFRFTDANGDGTID FREFIIALSVTSRGKLEQKLKW AFSMYDLGNGYISKAEMLEIV QAIYKMVSSVMKMPDESTPE KRTEKIFRQMDTNRDGTWVPH LALIYRTAEGGFVQRAVSIFY PPPSAGNAMVNEAAVFLEIPLG SSPGQVSAVCHSGRKL.SLEEFIR GAKSDPSIVRLQCDPSSAGQF

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23246	53614	A	23380	1	721	MDGNLRKIRFEKHAITEEFRTT EPGLAALRLPSTWIRGVRTSES KREVGKGGQSQQYENRDTEGE GHVMTKARDWSKAAASQRLP ANHLLRLCIDGFRSHSLPEEGP KKPCQHHAQEPEPTRSGRLPQ AHEGSISDCCTSEQGSMDIGSV EPGTGYNLLVCHLLSTLEKRSI WAGVSRFSRYHLRLPLARKIG NPLTPCASQLLLPLSTTQKRQS GHALYSFPYRPQPKNDNLVMP
23247	53615	A	23381	80	562	DRAMWGDWLWLLPPASANPGT GTEAEFEKAAEEVRHLKT/RSPS DEEMLFIYGHYKQATVGDINTE RPGMLDFTGKA/KWD/AWNEL KGTSGDVAEAYL/NQV/EELK KKYGDMERLDLVTVPVYKPK ETIPFFFSNTVDGWEFRENNPV KPAQTQRLLTHTGS
23248	53616	A	23382	380	1041	EVTINSGFIFIMLFMEHPEHYTI MHKWILTWILPTLLYRSCFHIIC LVGTISLACND/MTPEQMATNV NCSSPERHTRS DYMEGGDIRV RRLFCRTQWYLRIDKRGKVKVG TQEMKNYNIEMIRTVAVGIVA IKGVESEFYLAMNKEGKLYA KKECNED/CNFKELILENHYNT YASAKL/WTNGGEMFVALNQ KGIPVRGKTKKEQKTAHFLP MAIT
23249	53617	A	23383	127	549	SSPKMAATMKKAAAEDEVNVT EDQ/QKINKFARNTSRITELKEEI EVKK/KQLQNL/EDACDDIMLA DDD/CLMIPYQLGDVFISHSQE ETQEMLEAAKNLQEEIDALES RVESIQRVLADLVQLYAKPFG SNINLEADES

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23250	53618	A	23384	1	2050	MEYESMVISFDDRVMEKTEYGV PFTVFAMGNRMFTVTEEGIN VFLKSKKVDVELAVQNVYRTA SIPKNVFLALHEKLYIMLKGGKM GTVNLHQTGQLTEELHEQLEN LGTHGTMDLNNLVRLHYVPVT VNMLFNKSLFSTNKKKIKEFHQ YFQVYDEDFEYGSQLEPCLLRN WSKSKKWFLFEKNIPDIKAC KSAKDNSMDSDEDPVNLQSR ALVCEMLHVQRSSDADAIGPH ADHSLSNRWEVILADEHGIAD DMISRYALSEKSQLVELSTQV ASSKSVNKSIDITSVFLNWYN EKKMIRAYATVIDGPEYFWCQF ADTEKLQCLEVEVQTAGEQVA DRRNCIPCPIYIDPCIVRYREDG HYRALTINICEDYLVSVRLVD FGNIEDCVDPKALWAIPSELLS VPMQAFPCCLSGFNISEGLCSQ EGNDYFYIITEDVLEITILEIRR DVCIDIPLAIVDLKSKGKSINEK MEKYSKTGKSAALPYENIDSEIK QTLGSYNLDVGLKKLSNKAQV NKIYMEQQTDELAIEKDVNI GTKPSNFRDPKTDNICEGFENP CKDKIDTEELGVSSQKAQESMC TEDMRKSSCVESFDDQRRMSL HLHGADCDPKTQNMNICEEF VEYKNRDAISALMPFSLRKKKA VMEASTIMVYQIISQLNYRPTL
23251	53619	A	23385	3	602	TRPPTRPGLSPDPTSPTEADRGV CERPHRCFLLPQITHPSSGRRL CLLSPTSFDFSLYESQSDRAIF GVGTEPDQEPPIPYHEQVPVSV YHPTNPSQTWVATQLTEEEQIRI AQRIGLIQHLPGVYDPWRDG SEKKIRECVICMMDFVYGDPIR FLPCVHEWYHLDCIDDWLMRS FTCPSCMEPVDALLSSYETN
23252	53620	A	23386	33	512	TAARCOGGPPTHVPFVGTACP TRIPGHAPARQCREYYY*YYVD F/WKEPRRCHAILLPWAGLEV GMPPSHTQLGMHPAPPPHLEV KAQGPSNRQRDTGCRWCSCR ASALGGGRQDSRLRERGGGYD H/HCPICRSLKIQLKCHPASGPQ TVLGLRLASVS
23253	53621	A	23387	1	1731	
23254	53622	B	23388	1	706	



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23255	53623	A	23389	1	1986	MGIGEGPTTSEGCRESVEYSHQ KSELPLSGDSQVPGPIGNCNDP QGSVSSQCDAAGQCQCKAQVE GLTCSHCRPHHFHLSASNPDGC LPCFCMGITQCCASSAYTRHLIS THFAP/GDFQ/GFA/LVNPQRNS RLTGTEFTVEPVPEGAQLSFGNF AQLGHESFYWLPEYQGGDKG EAYFARMRRAHQNRSTLSEEQ LRAAVTAGRIPEPPEGRDWAQR ASQFSLSYEGFSLPGSLYYWQ LPRAFLGDKVAAYGGKLYTL SYTAGPQGSPLSDPDVQITGNNI MLVASQPALQGPERRSYEIMFR EEFWRRPDGQPATREHLLMAL ADLDELLIRATFSSVPLAASISA VSLEVAQPGPSNRPRALEVEEC RCPGPGYIGLSCQDCAPGYTRTG SGLYLGHCELCNNGHSDLCHP ETGACSCQCHNAAGEFCELCA PGYYGDATAGTPEDCQPCACP LTNPENMFSRTCESLGAGGYRC TACEPGYTGGYCEQCGPGYVG NPSVQGGQCLPESELHFPVSQ PSDAGVYICTCRNLHQSNTRSRA ELLVTEAPSKPITVTVEEQRSQS VRPGADVTFICTAKSKSPAYTL VWTRLHNGKLPTRAMDNGIL TIRNVQLSDAGTYVCTGSNMF AMDQGTATLHVQGSAAEAGERS MYSISVLLKYTS
23256	53624	A	23390	3	13319	PASGRLRAARSGRRGASERESG AGRAMGWRAPGALLALLIH GRLLAVTHGLRAYDGLSLPEDI ETVTASQMRWTHSYLSDDDEYM LADSISSGDDLGGSDLGSGDFQM VYFRALVNFTRISIEYSPQLEDA GSREFREVSEA VVDLTLESEYLIK PGDQVVSVVFIKELDGWVFE LDVGSEGNADGAQIQEMLLRVI SSGSVASYVTSPQGGFQFRRLGT VPQFPRACTEAEFACHSYNECV ALEYCDRRPDCRDMS

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23257	53625	A	23391	41	1323	HYLVFFLPRLRRYTVSLSPNSTS YQLLVPGPSY/SALPISSAASLY AGA/GGSGSRMSVSHSTSLRDG ISSGGLA/TGMARGLGGMGGIQ NKKETTQSLNDSLAVRVSLET ENRKLESKIREHLEKKGQVVRD WSHYFKTIEDLRAQIFANTVDN VRIFLQIDNARLAADDFRVKYE TELAMRQSVESDIYGLHKVIDD TNVINGCSFFMKNHGEVVKC LQAQIASSGLTMEVDAPKSQDL AKITADISTRYDELARKNREEL DKYWSQPIESTTEVTMQSAKV RAAEMTFMELRRTVQSLIEDLD LMRNPKASLENSI.REVEACYA LQMEQLNLDP/GILLHLESELTO TRAEGQLQAQKYKALLNIKNK LEAEIATYCLLEDGKDFNLGD TLDSSNPMQTIQKTTTSRIVDG KVVSETNDTKVWRH
23258	53626	A	23392	1	771	SCSWTPSAAWPPNASLHSCCLKR RNQDHLLLWDWRFDFPSSMA SKCQSPLLPQKKKPRPLPALGP EKTSASAGLPKKGEKEQETIE HIHEVQNEMDRLEQAKRSEL ISKIPDFWVTIFVNHPEVSALPG EEDEEALHYLTRVEMTDFDDIK SGYRIDFYFDENPYFENNILAKE FHLNESGDPSSKSTEIKWKYKG DLMKRSSQTQNKAKHRKQHEE PESFFTWTDFHSDVGADELGEV IKDIWPNPLQYYLVPMMDNEEG EGEEDDDDEEEGLEDEEG DEDEGEDEGEKGEDEGE
23259	53627	A	23393	732	1656	
23260	53628	A	23394	3	923	ARRLVVWFDFPNSMAPKRQS PLPPQKKKPRPPALGPEETSAS AGLPKKGEKEQQAIEHIDEVQ NEIDRLNEQASEILKVEQKYN KLKRPFFQKRSL/SAGIPNFVV TTTFVNHQVVSALLGEDEEAL HYLITRVEVTEFEDIKSGYRIDF YFDENPYFENKVLSEFHLNEIS GDPSSKSTEIKWKSGLDLTKRS SQTQNKASRKQHEEPESFTTW FTDHS DAGADELGEV IKDDIWP NPLQYYLVPMMDDEEGEGEED DDDEEEEGLEDEEGDEDEGE EEDEDDDEEGEGEDEGEDD

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met bod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, V=possible nucleotide insertion)
23261	53629	A	23395	732	1656	SCSWTSPAAWPPNASLHSLCKR RNQDHL LLWDWRFLDFPSSMA SKCQSP LL PQKKKPRLPALGP EKTSASAGLPK KGEKEQQETIE HIIIEVQNEMDRLNEQAKRSEL ISKIPDFWVTIFVNHPEVSALPG EEDEEALHYLTRVEMTDFDDIK SGYRIDFYFDENPYFENNILAKE FHLNESGDPSSKSTEIKWKYK DLMKRSSQTQNKAKHRKRQHEE PESFTTWF TDHSDVGADELGEV IKDIWPNPLQYYLVPDMNEEG EGEEDDDDEEEGLEIDEEG DEDEGEDEDEGEKGEDEGE
23262	53630	A	23396	3	924	ARRLVVWFDFPNSMAPKRQS PLPPQKKKPRPPALGPPEETSAS AGLPKKGEKEQQEAEIHIDEVQ NEIDRLNEQASEEILKVEQKYN KLARQPFQKRSKLSAGIPNFW VTTFVNHPQVSALLGEEDEEA LHYLTRVEVTEFEDIKSGYRID FYFDENPYFENKVLSEFHLNE SGDPSSKSTEIKWKSGLDKTKR SSQTQNKASRRKRQHEEPESFT WTFDHS DAGADELGEVIKDDI WPNPLQYYLVPDMDEEGEGE EDDDDEEEGLEIDEEGDEDE EGEEDDDDEEGEEGEDEGED
23263	53631	A	23397	1	1393	MKGQKGGGPQAWAEGLGRE WMRMPQEGKGSQRKSTQKQT KREIDAYIVAKERSYETVLSF GKRGLNIAASPAVQAATKVLW APSPPAAPIPPLRPFGLQLCCQG AQRWQPGSREVKGRLCQARLA ETSSIAGNLRVQSYERPVDPGV TMDPPLPGRTIVFAAGDHTLW RAPVSSCAQRSGVWSLDNMGV NSGSVPFHGVRIQASQLISFN FSFCEADLKTPLHGFLIPAGPK EEVTVKKEKREDRDRQREGH GRGGRPEVIQSHIFEQGPAE MMKKKGNWDKTVDVSDMGPS HIINIKKEKREDEETKQILRML EKDDVDHHALEHLVTTATFSI GSTGLVVYDYQQVECGHVRA DLKTQDLYSHAQFGDNNYPGG VDWYRAGGLQSDTEDECWS DTEAVPRAPARPREKPLIRSQSL RVVKRKPVPVREGTSRLKVRTR KKTVPDSVDVS
23264	53632	A	23398	297	584	

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23265	53633	A	23399	2	149	CMKFGAVTPIGGPPLGDQSPVL LLFAL*KRSTYNLGSSDPPAQGI SHQF
23266	53634	A	23400	1	170	PAGIRHEERSTYDLWSSDRPGQ GTSHQF*IRFQIPWNSGPRLSE* LLPRSSRLSS
23267	53635	A	23401	1	1077	
23268	53636	B	23402	289	1359	
23269	53637	A	23403	3	2233	
23270	53638	A	23404	1	1491	
23271	53639	B	23405	76	511	
23272	53640	A	23406	1	2706	
23273	53641	A	23407	273	862	
23274	53642	A	23408	1	1080	
23275	53643	A	23409	134	675	MHYFHSSVQIGLPLTRRSQVLIL PQPLLNPILLSPPLLTPVPAYS FIL/PTSPPPPARQFPLKKVAEAK GIVKQLKTDARTSPRKPTGPSQ TLWVTLTVEDLKHAFITPLHP SSQPLFAFTWTDPDTHQAQQIT RAVLQVFTDSPHYFSQAQISSS SVTYLGILLIKTHVLSLLIMSG
23276	53644	A	23410	1	895	MEVHKHPFNTALRHHESGCEL VWAEKHRNQIFFPKSTASPKQ WDTGRHNSDAKQQEPGGREER NTMEMETKETHFIRGPKTLASV TDWEGSLPLVFNHCRGTSIIHP RFKGVRRPRDACLGPSPLAASP AFLGKGQHALKGLKPVITRLLQ HGLLKPINSPFPSILPVLKPKDK AYKLQVNLRLINQIVLPIHPVVP NPYTLSSIPPSTTHYSVLDLKH AFTIPLHPSSQPLFAFT*TDPT H*AQQITWAVLPQGFTRQPLL QLSPNFILICYLSRHNSHKNTA LPADRV
23277	53645	A	23411	1	930	MIQEHADKQVQRLQGVLGSI TAASRARLHPGEINNHVAHTEP VWWSLHMDAYEIWCRGSDRR TSLGRSIPPLPACSLRRIHLRPQ VLRSTSPRNISPISNPGHLSDYTP TFQGCQTMQGRLPWSFTLSGK SRFSGEGATQRYPIPQQAALKG LMPAITRLLQHGLLKPINSPYHS PILPVLKPKDKPYKLVQDLRLINQ IVLPIHPMPVNPNYTLSSIPASTT HYSVLVYVKHAFFITPLHPSSQP LSTFTWTDPDTHQAQQIT*AVL PQVFTDSPHYFSQAQISSSVTY LGIILHENTRALPADHV

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23278	53646	A	23412	299	1028	RLGSFSSNHPYLQGRQYPIPQQ ALKGLKPVITCLLQHVLLKPVN SPYNSPILPVQKLDMPYRLVQD LCLINQIVLPIHAMVNPYTLT SIPPSTTHYSVLDLKPFAFTIPLR LSFQPLFTFSWTDPDTHQAQOI TRAVLPQSFTDSPHYFSQAQIS* RLGSFSSNHPYLQGRQYPIPQQ ALKGLKPVITCLLQHVLLKPVN SPYNSPILPVQKLDMPYRLVQD LCLINQIVLPIHAMVNPYTLT SIPPSTTHYSVLDLKPFAFTIPLR LSFQPLFTFSWTDPDTHQAQOI TRAVLPQSFTDSPHYFSQAQISS SSVTYLGIPGFAILTKPLYKLT GNLADPIDPKSFPHSSFRSLKTA LETAPILALPVSSQPFSLPTAEV WAAQSEFLHKNRDRTE
23279	53647	A	23413	157	202	RSECARWMEK*CPWL
23280	53648	A	23414	184	482	EGVSVFLLSPYQGPQVSRRC S/RQVSQRCPHRRGRPCPVQS RSHGPSWVGHGMPPLYGS/EQF YCGAPLAGPPNGSRGESLKIS VWIFPCRDGNGFN
23281	53649	B	23415	13	862	
23282	53650	A	23416	1	11342	MATRWFFYYGHPPRDARVPRIV AEAKEKNLTPGKIEVDVTIEAQ IRQEFDLAERDTGGFVKFFRITK KKLQEFFLGEEEEQVPHVSPVE LGAKPTAFNAFIANAVGKTLAV QHASKLAPPEMTVTHERFYG NYAVWITDVPDRNHRJIEVHVI REISGRTSEYVNNLLAQPTPFK VFDWLTETQAKEFVRRLNNTQ GVISVYNKLEDGIPVKVAVKAT EPTNKEKLEAASTKLKAMGAV ATDAYEFHTDLNENE
23283	53651	A	23417	7597	7883	LSSLAWVWQWNHRISVLFHNS SVRTNLVPQFNQLVITESNSCPE FFNQTSAFFKT*VESGCM/CLQD *GIEWFRLRLDVYNSRLVFLTG ATDYCTG
23284	53652	A	23418	3	1573	
23285	53653	A	23419	6692	6793	GASVAPSIGS*STGNAIPSCLFQ QNVIVPIPQS
23286	53654	A	23420	1	17727	
23287	53655	A	23421	6687	6785	VNTGNRTWWEPLFRK*KKTQR EDTTEKKTGR
23288	53656	A	23422	1	2856	
23289	53657	A	23423	1	7194	

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23290	53658	A	23424	7460	7561	GASVAPSIGS*STGNAIPSCFLQ QNVIVPIQPS
23291	53659	A	23425	1468	1857	
23292	53660	A	23426	1	1985	MEPVGIDIIAISWIGAPEYDPNV KRAINAKVEATQKTLQREQEIQ QRVAEANMEREQAKGVADAIR LRGEALTENPNVMQLEAINKW NGLVPFITSSPGMGKSAIVRQIA EDFGKLIDHRLSTSAPEDLSGL PRFKENGRAEFAPFDELFPLEG DAVPEGFNGWLLFLDEFNSAR KEIQAAAYKLVLDGMTGQKKL HPYVAIVCAGNKATDRAITNNL STAMQSRLIHLEMETDFDVFME DVAIPNKWDERVIAFLNANPNK LNDPEPDHQEKTFCCSR TWEFV NKIVSILPPGPNSEMTLLLAGTI TSGVATSFVQFTQVYSNMVSL NEILDNPCKARMPEDNLLWA VVTSLINNTDEDNHSKIFDYVE RMPFTFKVLVYRSRKTDSMT DAQLTREYDRCAKAFMGKTA AFFGSLCCLKFRWVKDGCOT AQTDGEHLEWNPWFESLLPE SRVTVMHLEWHVGLHLSVR MGSRDPEVWNYACDIYINNQLI QDGYSGFIGIENCWKDPKYAGW AEEQIYHDLMSKHPRPPKASGA FGTSGGDMKPKSTKASLKLGS GSLPGVLPKGMEEVITQFLKPV VPWQVLLERFFNDLQETYYSW QRPNRRYPDMYLPSSMDDDCR LEHLAYFL*NEADLTGLLVLK* TDDQS VSGQNLLQSDEQLQIY
23293	53661	A	23427	2365	2784	
23294	53662	A	23428	5789	5980	DQNMRFDFNTFETYYWKPTIIVII IRKLLMNDSSKDTLK*LRCWK NWLQILKKHTIHFMPLQL
23295	53663	A	23429	1	6819	
23296	53664	A	23430	376	2052	SKVCGNDGFADDLKHLILFTGA QSGEDIVPFQLEDGHSLSGEVVL LHGGSGVESGQR/CGRTSAGSC Y*SPGKICCCNLLVTKTEGFFAP VPIQLENTNQVTNCSDNW
23297	53665	A	23431	2	2189	
23298	53666	A	23432	2	1583	
23299	53667	A	23433	2142	2242	GASVAPSIGS*STGNAIPSCFLQ QNVIVPIQPS
23300	53668	A	23434	3	1188	
23301	53669	A	23435	470	862	
23302	53670	A	23436	1	1352	

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23303	53671	A	23437	1837	1955	SKCSIGLYQRYPSYNGC*NSGCI CRVY*CCREHRGYVRN
23304	53672	A	23438	1447	1565	SKCSIGLYQMYPYNSGC*NSGC ICRVY*CCREHRGYVRN
23305	53673	A	23439	773	823	
23306	53674	A	23440	3	1529	
23307	53675	A	23441	1	1794	
23308	53676	A	23442	236	427	DQNMRFNDTFETYWKPTIIVII IRKLLMNDSSKDTLK*LRCWK NWLQILKKHTIHFIMPLQL
23309	53677	A	23443	8510	8611	GASVAPSIGS*STGNAIPSCLFQ QNVVPIPOS
23310	53678	A	23444	516	669	ATSELKRKASLGLMEPDVSRK* ARCSSLPSSSIGDGRYISGYRL GRCHE
23311	53679	A	23445	410	593	FLNLIQPOGKRKLLLRKRSLLP KN*CQHSKQHKLSISSVVILNIT NS*PNKVKLMPILAM
23312	53680	B	23446	1	2286	
23313	53681	A	23447	1418	1723	CNTNIIFNCHFPTKLGCKICKAMK VVSPLIHNSIVILLNQITIDFFSTL AQICTFICLTYSKQTTRIASFQ KVIEEFLSLAPIEKVELKEHS*YI SISEKV
23314	53682	B	23448	1	6167	
23315	53683	A	23449	1	3199	
23316	53684	A	23450	1	5733	
23317	53685	A	23451	709	1099	
23318	53686	A	23452	5039	5230	DQNMRFNDTFETYWKPTIIVII IRKLLMNDSSKDTLK*LRCWK NWLQILKKHTIHFIMPLQL
23319	53687	A	23453	664	993	
23320	53688	A	23454	1	19859	MASIDSIACVNPQRVKFVEHC IRSGLVPFITSSPGMGKSAIVRQI AEDFGLKLIDHRLSTSAPEDLSG LPRFKENGRAEFAPDFELFPLEG DAVPEGFNGWLLFLDEFNSAR KEIQAAAYKLVLDGMTGQKKL HPYVAIVCAGNKATDRAITNNL STAMQSRILHLEMETDFDFVME DVAIPNKWDERVIAFLNANPNK LNDFEFDHQEKTCCSRTWEFV NKIVSILPPGPINSEMTLLAGTI TSGVATSFV
23321	53689	B	23455	74	240	
23322	53690	A	23456	143	384	
23323	53691	A	23457	1	3267	

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23324	53692	A	23458	2	550	KRSSEHIQRIDRDVSGTLRKHF FRDRYGTQKRELLHILAYEY NPEVGYCRDLSHIALFLLYLP EEDAFWALVQLLASERHSLQG FHSPNGGTVQGLQDQOEHVVA TSQPKTMGHQDKKDLGGQCSP LGCLIRILIDGSLGLTLRLWDV YLVEGEQAFMPITRIAFKVQK RLTKTSR
23325	53693	A	23459	72	630	
23326	53694	A	23460	1	2835	MDALMLALGALMLALGLGDP KSAQVSDPDGAEPGPGRATGT DPLVQIHWKLGISEALSIPGGRL YRDLWSLTPVCLHIPGIAHHGP FTLGRMDVVEVAGSWWAQER EDIIMKYEKGHRAGLPEDKGPK SFGSYNNNVDLGIVHETELPP LTAREVKQIRREISRKSKWVKM LGEWDTYKNSRKLIDRAYQGIP MNIRGPMWSVLLNIEEIKLKNP GRYQVRSARAQPTGQAVSQAQ VSSWRERQDHPGELGVKI



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23327	53695	A	23461	1	832	MGWRARWLMPVISALWEAED PIPELTRLQQSQDPLLMLGLFP TNPKEKTQEEPPGQSRAPVLT VSKFKVLGALLHLGNIQFAASE DEAQPQCPMDDAKCEGQGVG WAGPVRKASLEQLQLVLSHTT PHYIRCIKPNSSQQAQTFLQEE AGAGRRRQRRRQKQRRRRRQ LGGGDDGGNGSVGDDGATRGS RGCALKEKCVATPRRGLLFSRP HKLAFVGGSVTSVGPKPAP MDVVEVAGSWWAQEREDIM KYEKGHRAGLPEDKGPKPFRS YNNVNDHLGIVQDFADFGTTIK QDFRLGQTSVDRLLQLSQGQ AVKGNQLLPVSLVKRKTTLAP NTQTASPRALADSLMQLARQV SRLESGHFYDAHNPFLPPSMS KQAKKTGVPSEGLCRPGGEGQ SAVARLTGEKKNHPGAQYANR LSPRVGRFINAAGTTGFTGKR AVSATQLIGLQILLGEVLQKV LTASYPAQSSVPLTSGPVRQIM KEKGRSSEHIQRIDRDISGTLR KHMFFRDYGTQRELLHILLA YEEYNPEVGYCMDLSHIALFL LYLPEEDAFWALVQLLASERHS LQAARAPAAIGAHARADQAQIS LGLTLRLWDVYLVEGEQALMP ITRIAFKVQKRLTKTSRCGPW ARFCNRFDVTWARDEDTVLKH LRASMKKLTRKQDGLPPPAKPE
23328	53696	A	23462	3	497	SSECLTMAWIPLLPLILCTVS VASVELTQPASVSVSPGQTASIT CSGDVLAKKKYARWFQKPG QAPVLVIYKDSERPSGIPERFSG SSSGTTVLTISGAQVEDEADY YCYSAADNNGWVFGGGVTKLT VLSQPKAAPSVTLFPPSSEELQ ANKAHTGVSQ
23329	53697	A	23463	1	393	FRSGSELVKAGLRAFFENAED LEKTSNKLKLGKFTHSRTQIKG VSQINITYTVALLPILTSIFEHV TQHFGMDLLLDGVQISCYHIL CSLSYSLGTGKNYVEILGMPDT VEDMCPDIPQLECLMKEIN
23330	53698	A	23464	319	508	
23331	53699	C	23465	94	222	
23332	53700	A	23466	1	636	
23333	53701	A	23467	1	483	
23334	53702	A	23468	1	1797	

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23335	53703	A	23469	1	4275	
23336	53704	A	23470	1	1848	
23337	53705	A	23471	122	14928	ARSWRRRWRTRTKRRRRKSAA AVSARRAAAGGSRGAGGWGT ADASGAMAEAGGEGEDEIQFL RTEDEVVLQCIATIHKEQRKFC LAEAGLGNRLCFLEPTSEAKYIP PDLVCNCFVLEQSLSVRALQEM LANTGENGEGEAAQGGGHRRL LYGHAVLLRHSFSGMYLTCLTT SRSQTDKLAFDVGLREHATGE ACWWTIHPASKQRSEGEKVRIG DDLILSVSSERYLHLSVSNNGNI QVDASFMTLWNVHPTC
23338	53706	A	23472	134	1063	RPPGLTRSPSPAPARSPTRRQS TRRRSGATTSCQRLWATWNG CD/VCLNQSLREIPTDDKGFTAI HFAAQWGKLACQLVVEEYKF PVDLLTNSQTPLHLVIHRDNT TVALPCIYYLLEKGADLNAQTC NGSTPLHLAARDGLLDCVKVL VQSGANVHAQDAMGYKPIDFC KIWNHRACARFLKDAMWKD KKDFAREMTKMKMFKSQTL MEHNYLIEYQKEHKILREAAIR KWLHGKLLHPGHSLSVNTKQAR ATALSKTPEQRESQRSRSHPSV DARLQCIPQTEMPKPIYRKPTV KRPHNVEC
23339	53707	A	23473	1	1280	MAGLGFVGHGAPGLLLLLLV LPPRALPEGPLVFVLFVRHGD RAPLASYPMDPHKEVASTLWP RGLGQLTTEGVRQLELGRFLR SRYEAFLSPEYRREEVYIRSTDF DRTLESAQANLAGLFPEAAPGS PEARWRPIPVHTVPV AEDKLLR FPMRSCPRYHELLEATEAAEY QEALGWTGFLSRLNFTGLSL VGEPLRRAWKVLDTLMCQQA HGLPLPAWASPDVLRTLAQISA LDIGAHSVGPRAAEKAQLTGGI LLNAILANFSRVQRLGLPLKMV MYSAHDSTLLALQGALGLYDG HTTPPYAACLGFEFRKHLGNPAK DGGNVTVSLFYRNDSAHPLPL SLPGCPAPICPLGRFYQLTAPAR PPAHGVTCCHGPYEAIPAPVV PLLAGAVAVLVALSLGLGLLA WRPGCLRALGGPV

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23340	53708	A	23474	133	672	AVGWESGKWDSSGRGQGGGQE QMWSCQSDMLYPPDQVGA WG LPGPTGPKGDAGSRGPMGMRG PPGECPCQCPTAPLAIPSTRWAL PCSWPPGPPGPPGPPAPVGPPHA VGSMSVSPGIPAGGGGGGVAI STVPATIKTRRQEVSPELPRP/PG PAPPPGPDVRPWL.LRPPGPMGK LSPGQG
23341	53709	A	23475	135	677	AVGWESGKWDSSGWGQGGGQE QMWSCQSDMLYPPDQVGA WG LPGPTGPKGDAGSRGPMGMRG PPGECPCQCPTAPLAIPSTRWAL PCSGPPGPPGPPGPPAPVGPPHA VGSMSVSPGIPAGGGGGGVAI STVPATKKTRRQEVSPELPRP/P GPAPPPGPDVRPWL.LRPPGPMG KLSPGQG
23342	53710	A	23476	220	745	TVIQRITGLHSVGPDPQQLRE AKLGTMVRLVLLPTPRRTTEVR TGPEREISMVLEAILGSLLETAC DHRQTTPSSKQA/GSSRLREGT SAGQPCL/LRLRLGPRAGGRRRC CRDIERSSSSVCGRKCKRKKR KRGMCQSRHKHGCRRPQEGPR CNDGRALCSPRPQTTPGPLSTA
23343	53711	A	23477	1	2433	
23344	53712	A	23478	3	803	FPGRFRVRAVAGGSHCLFNS CCCCTSASLPARERHEWPGPAA AAAAAAAAAARRSQTQREGLFA GWGGGFAMSDDDSRASTSSSS SSSNQTEKETNTPKKKESKVS MSKNSKLLSPRAKGIGKELVAD ITLDPPPNCSAGPKGDNIYEW STILGPPGSVYEGGVFFLDITFTP EYPFKPPKVTFRTRIYHCNINSQ GVICLDILKDNWSPALTISKVL LSICSLTDCNPADPLVGSIAATQ YMTNRAEHDRMARQWTKRYA T

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23345	53713	A	23479	372	1839	GEAGGTEAEPENGAGGPRVPG WWGWSSTSSPRGCWDSGRSAA AIMDFLWDKRTGLAARKMPHP RRYHSSERGSRSYCEHYRS/R K/HKQRRSRWSSSSDRTRRRR REDSYHVRRCRSTRFSRSSQH SSRKAKSVEDDTEGHLIYHVGD WLQERYEIVSTLKGKGTGFRVV QCVDRHRRGARVALKIKNVE KYKEAARLEIKVLEKINEKDPG KNLCVQMFDFDYHGHMCISL ELGLSTDFDLKDNHLPYPIH QVHHMASQLCQAVKFLHDNK LTHIDLKPENILFVNSDYELTY NLEKKRHERSVKSTAVRVGDF GSATFDHEHHSTIVSTRHYRAP EVILELGSWQPCDVWSIGCIIFE YYVGFTLFQTHDNRQHLATME RILGPIPSRMIRKTRKQKYFYRG RLDWDENTSAGRYVRENCKPL RQYLTSEAEEDHQLFDLIESML EYEPQRLTLGEALQHPFFSRL WAEPNKLWDSSQDISP
23346	53714	A	23480	28	941	QSARPSLKRARSQRGRPLPSRA LVFLFLFFFFFFNFLPIHTQPSAH KDMITTNAGPLHPYGPQHLRLD NFVPNDRPTWAYTGLGLFSVT GGLRSWTTWAVVQGRAAGCPI GDFGRATVPCCWVLQCVGFIH LVIEGLVPFSNYERPFCGDSLL NLKLWKEYGQGETARLHPGG DKFHSVALGTITSFA\WGEPSL WVVI\FLQLQHPARFILQLVVS VGQIYG\DVFYFLKEHPRRDS KHGKPGFTPLLLPGFSFVFHEM PLWLVPAPGSPCLDA\VKAPS THAPEHAWNAGKPQPKSKKN

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23347	53715	A	23481	1	1386	MWRNLKLPDRLLNGFDQNADS DMDNEVQAEVVTGDDEELIGN WSKGHSCYILAKRLAAFFPCPK DLWKFELEDDDLGYLAEEISS EAFKSVSYEKAAHWNPLESTC RHASLALAVVLQRRDWENP/G VTQLNRLAAHPPFASWRNSEE ARTDRPSQQLRSLNGEWRLMR YFLLTHLCETLVKVKDAEDQL GARVCVLERQIFDLGYQWAPI LANFVHIIVILGLFGTIQYRPRY ITGILSFPKHQESLSLKFTCLTEA ERDTDALLHLENACRESTATQR IQGFLLKDKKRKKQPPQQKQ QQWAKVQLGPWLQRVQAPSL GSFHGVLSLRVHRSKELRFRNC CLDFRCMEMPGCPGRGVLQA QNPRGEPLLGQCRREMC GGSP YIVPTGALPSGAVRRRPPSSRPH NGRPTDSLHCVPKKAADTQHQ PLKAARRAAVPCATGSELKP
23348	53716	A	23482	3	732	SPLTPTATSGNPSKASSPGGLGS LVSTASSLPAGEKNSPRTGPGP RRAGAGIPNSGPDVTEGYPYNL CGRQGRWGGLIISLASEMKLQT LQTSVTTAKATLLELFVPLGGL VASLASEVRLQIFPRGGHLQSA KCGLLHLFSLPTSRSGRRKANR PMAVTVLLVLRDCADLLAVK AVIHCYQDQWPLRGSSRPANTP PPKASVSRPPGHRGVRRGSPL LQVGARRVGAEPALLELQSPS
23349	53717	A	23483	1	234	
23350	53718	A	23484	1	256	MLNLQGEWLELEDAQKAYI MGLLDRLEVVSRRRLKVARA VLYAQDGEKFCPKRDCTNNS/ RY/NSI*MIQMMFRGTLELMRL
23351	53719	A	23485	1	3333	
23352	53720	A	23486	1	2661	
23353	53721	A	23488	3	433	

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23354	53722	A	23489	3	990	EKMNTADQARVGPADDGPAPS GEEEGEGGGEAGGKEPAADAA PGPSAAFRLMVTRREPAVKLQ YAVSGLEPLAWSEDRVSVST ARSAIVLELICDVHNPQGDLVIH RTSVAPLNSCLKVGSKTEVA ECKEKFAASKDPTVSQTFMLDR VFNPEGKALPPMRGFKYTSWSP MGCDANGRCLLAALTMDNRL TIQANLNLRLQWVQLVDLTIYIG ERLYETSYRLSKNEAPEGNLGD FAEFQRRHSMQTPVRMEWSGI CTTQQVKHNNESRDVGSVLLA VLFENGNIADVWQFLPFVKGES ISSCNTIESGITSPVLFVWEYE HNNRKMSSGLIVGSFAGPIKILPV NLKAVKGYFTLRQPVILWKEM DQLPVHSIKCVPLYHPYQKCS SLVVAARGSYVFWRLLLISKAG LNLHNSHVTGLHSLPIVSMAD KQNGTVYTCSDDGKVRQVIPIF TDVALKFEHQLIKLSDVFGSVR THGIAVKPCGAYLAHTTEGMIN QLHPVNKNYQVQFVTLKTFEE AAAQLLESSVQNLFKQVDLIDL VRWKILKDKHIPQFLQEALEKK IESSGVTYFWRFKLLRLIYQS MQKTPSEALWKPTHEDESKILLV DSPGMGNADDEQEEGTSSKQ VVKQGLQERSKEGDEVEPTDID SLPTTGADAGGREPMGRNSW GNSKGKIRSCWEMRLTREHMK
23355	53723	A	23490	1218	1446	RCTDSQVRSPTPLHLAAQACSL ETTVCLLCSKADYTLSEKRGW MPIHFAAFYDNCVCHIALCRKDP SLEAEATAE
23356	53724	A	23491	2	632	NMAKTYDYLFLKLLIGDSGVG KTCVUFRFSEDAFNSTFTITIRI DFKIRTIELDGKRIKLQIWDTAG QERFRTITTAYYRGAMGIMLVY DITNEKSFNIRNWRNTEEHAS ADVEKMILGNKCDVNDKRQVS KGS/GENKLALDYGIKFMETSA KANINVENAFFTLARDIKAKMD KKLDGNSPIQGSNQGVKITPDQ QKRSSFFRCVLL

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23357	53725	A	23492	1	1018	MVFYHVQAGLELLTSGPHCP DSQAADKAESATLLSRARLGA YCACASLERRWPHFSGREC MAKTYDYLKLLMIGDSGVGK TCVLFRFSEDAFNSTFISTIGIDF KIRTIELDGKRIKLIQWDTAGQ ERFRTDHNRPYRGAMGIML VYDITNEKSPDNIRNWIARNIE EHASADVEKIMILGNKCDVND KRQVSKERGEKLALDYGIKFM ETSAKANINVENAFTLARDIK AKMDKLLGPAPHGTLGKGE EFAGVAGASAGSASLGLTPKQ TRPCPVNPQASREHTAFSIPKLG QKDNMEGNSPQGSNQGVKITP DQQRSSFFRCVLL
23358	53726	A	23493	1	130	
23359	53727	A	23494	1	1392	
23360	53728	A	23495	445	649	YPSLTNSKLLVHHFMELCWD KCVEKPGIALDSRTENCLSC WDRFIDTYLTAITSRFAQIVQKG GQ
23361	53729	A	23496	210	397	VITYAPGKKAQRTQK/APKTKTK KPHLSPCPSP/WRSRSCQPMQQS WSGAQVHIPQPPHTTCITWA
23362	53730	A	23497	55	286	QASSSPPISSVTCRKALPPGQTK KGLVASGDPEPVSMTSSPTPS LAPEHSSRASLEPSSSA*PSLAT* SRAGGSQA
23363	53731	A	23498	780	1022	QAMHGRSPGVTVRASGLRNEG DGPLGSVPTQARATGAPGHSAT PSPA WRA WSSSSKAS/WLPDA AGPPTPPWSGPSPTSW
23364	53732	A	23499	1	782	
23365	53733	A	23500	275	688	

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23366	53734	A	23501	1166	2271	LRCILTLISRWC*VSTVANLPP GISKWGANWQRCMEKE*CWSP AVTWICITCAQRSQ/IGDSSPYPG ATSFNEYVKANLTWRGPVEQH PLVNYLDHERGTLNPTARHYL PVLYVLRILWARTPLPIGRRT VSKVKMKRILRAMRQKQQVL PLLVLGLDELMSAPSIPA ARMAQLDSRECRKLLNQAMA CRTSLEVEHLLAQFRMTQQDA PLVTAEITLES DWSKEEV LK GMTDNL LLAGRCRYPRKLEAD LWAREAVFSTGLGFSFAIPHSK SEHIEQSTISVARLQAPVRWGD DEAQFIIMLT LNKHAAAGDQHM RIFSRLARRIMHEEFERNALVNA ASADAIASLLNMNWTVKEHHE
23367	53735	A	23502	1	2604	
23368	53736	A	23503	306	468	TRHCDRRQPRRGHRRAGT/CNQ I*KGCCCVRTKQLSPSLVSNF CPCSSFLKNS
23369	53737	A	23504	102	509	AAQQGTMARSLI.LPQILL.LSL ALETAGEEAQGDKIIDGAPCAR GSHPWQVALLSGNQLHCGGVL VNERWVLTAAHCKMNEYTVH LGS DTL E/ADRKAQRIKPSKSF RHPGYFTQTHVNDLMLVKLNS QARLSSMVK
23370	53738	A	23505	1	1032	MMQATVGFEDGDAATSQVSPS VNKVHSSYFLDFEEYIVIAFKI LRRGPDISCQIINGEDCSPHSQP WQAALVMENE/LFCSGVLVHP QWVLSAAPVSRKYNRPLLAND LMLIKLDESVS ESDTIRISIASQ CPTAGNSCLVSGWGLLANDPT SRLLPPLPCRNPVQPLLPPPEKP RTAPDTLGSSPVKSRGTSSGSS FLLPAPSPFPFRPHGHTPTSCG QDQVDPALAGGSLGSPAGEAL PRLAAPERLSRHGKIPSPAPAD LTAILALETAGEEVPPLTSCA WMSSSPPGLIEGLQGLTGKHFH AVRWHPRLQEKRLQSVSPDSR IPGARRPAAR
23371	53739	A	23506	303	393	



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23372	53740	A	23507	391	1170	GSFFFFFYFAYSPMPKNSKVV KRELD DDVTVESVKDLLSNEDA ADDAFKTSELIVDQGEKEDTDV EGK\SEVEDERPAWNSKLQYIL AQVGFSVGLGNVWRFPYLCQK NGGVVEPECEQSSATTYYWYR EALNISSSISESGLNWKMTICL LAAVWMVCLAMIKGIQSSGKV NTYDRVTMSATVLALQEQQWT FSPIRSGNHLTGSGAQRTPCRI RRGGSQLRVCDGGKQQWWTV SQSSARAITNTDQKSVQLQDLIE
23373	53741	A	23508	45	546	EGGGSRSLSWFRELIGQPVSQFIE PVAAGGAVALNVQ/RSCGVVS AAPACL*SRPHSWRWGGPACW RTPGG/LASRSSSSA SILMSSSRA SFTRSLSLSTHKDQGLVCSGSS GATGAGSCLWPPISHTVKLMF LYSTVSTLKPVMGMVVTISPSSL SL*RIVVFPAASRPT/YEDAHFFF CQKGP*RGSSSLQHPGPP
23374	53742	A	23509	1367	2142	VRRPQGCLGKRSLSRVCA LVP WGIWP/WSLAVGPQYSSLGSP ILCASIPGLVPKQLRFCRNYVEI MPSVAEGIKIGIQEQHQHFRGR RWNCTTVHDSLAIFGPVLDKG YFGYLETTITVPDSVVSTKAETP DKGVCGRELGRGGWLPQLQS LDEISMGWALCSRLQIKATRES AFVHAIASAGVAFVTRSCAEG TAAICGCSRRHQGSPGKGWKW GGCSEIDIEFGGMVSREFADARE NRPDARSAMNRHNNEAGRQV GSPPARVLGKKEPPQGVCPGS LGHMARSLAVGPQYSSLSQPI LCASIPGLVPKQLRFCRNYVEI MPSVAEGIKIGIQEQHQHFRGR RWNCTTVHDSLAIFGPVLDKG YFGYLETTITVPDSVVSTKAETP DKGVCGRELGRGGWLPQLQS LDEISMGWALCSRLQIKATRES AFVHAIASAGVAFVTRSCAEG TAAICGCSRRHQGSPGKGWKW GGCSEIDIEFGGMVSREFADARE NRPDARSAMNRHNNEAGRQ

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23375	53743	A	23510	2094	2619	ASPASPAPCSGIPRT*SPYPSPSR TQAPRARGPAIHAPHGP/RGCT ALPRQGPPTPGSARAPPRIPAHR APTSPTLNFLCLASSRQSMPPAPR PPPVPATNPVPTGCGRPPPTLGC RNPQTLRPPGLPSPALLRRPLP PPARVGMPPHQPLPTTPACWR PVDWARAEGAGRAVC
23376	53744	A	23511	3050	3317	PARTSPASGPP**DLISALWTPS QPRAPTRQSLNSLSSAPSSSTIG PSPSPAPGPAAPLPWLPPSPSSL PRLSQVSRRPHSHLHPQ
23377	53745	A	23512	862	2954	AEHTLLVCFNLSTLTSTHVES FGQLRGSQIGHPRRNKMPYA WSIPQDPLKPERDPGGPLGVS LSLPVNQYGESEPMGDDDDYD EYSKELNQYRRSKDSRGRGLSR GRGRGSRGRGKGMGRGRGRG GSRGGMNKGGMNDDDEFYDE DMGDGGGGSYRSDHDKPHQ QSDKKGKVICKYFVEGRCTWL YHTTGNCGNDDCMFSDHPLTE ETRELLDKVEMTGSSVFDYIHP GDHSEVLEQLGLRTPTPGPPTPP SVSSSSSSSSSLADTPEIEASLTK VPPSSLVQERSFFVRMKSTLTK RGLHVKASGYKVIHVTGRLRA HALGLVALGHTLPPAPLAELPL HGHMIVFRLSLGLTILACESRVS DHMDLGPSELVGRSCYQFVHG QDATRIRQSHVDCEHLHPPSL PTTPQTRASHSLVPGSPSSGLPT VPPAAPTAAGTPFISIGRAARRLS DASGLLDKGQVMTGYRRLQ RAGGFVWLQSVATVAGSGKSP GEHHIVLWVSHVLSQAEGGQTP LDAFQLPASVACEEASSPGPEPT EPEPTEGKQAAPAENEAPQTQ GKRIKVEPGPRETKGSEDSGDE DPSSHPATPRPEFTSVIRAGVLK QDPVRPWGLAPPDPPPTLLHA GFLPPVVRGLCTPGTIRYGAEL GLVYPHLQRLGPGPALPEAFYP PLGLPYPGPATRLPRKGD

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23378	53746	A	23513	1319	2211	GSKVYGSFLFHINHGPNFNMVEVL VDSWPEYQMVIRPQ/ETVRGE EKVQGNLDTFHHPTQEMTDDDM DSYTNVYRVFSKDPQKSQEV KNSEIHNWKQLQIQGFQESLG EGIRAAAFSNSVKVEHSRALLF VTEDILKLYATNKSILGSAET GHPDDELESETPNFKYAQLNVS YSGLVNDNWKLGMMNKRSLRYI KRCLGALPAACMLGPEGVPVS WVTMDPSCIEGMGYSVEKYRR RGNGTRLIMRCMKYLCQKNIPF YGSVLEENQGVIRKTSALGFLE ASCQWHQWNCYQNLVPL
23379	53747	A	23514	234	858	SVPLQESPLPPPTHQADC*SPC GAQGGWVTLAVASASS*AHTA SPLRSPQAQGRASPAPPQIHL TTPSFSSQGT/SHGGLGSTPGA DDPNTSSS/PPPGGSTPRWSAGD SAHSGGEVDGWS*SFP*SVPSY GT*SFP*CPWPSSGQRSFHGIASG WEPDGPIDGSSRWEPCKGPQES ETGVEGRQHFPKQLCLGSCRA VASPRVARA
23380	53748	A	23515	1	3582	
23381	53749	A	23516	628	4254	RLPESRAHDVAGADERPWPVH AGIFKSPAAGAAMSPAAAAAG AGERRRPIASVRDGRGRGCGGP AGAAALLGLSLVGLLLYLVPAA AALAWLAVGTAAWWGLSRE PRGSRPLSSFVQKARHRTLFA SPPAKSTANGNLEPRTLLEG DPAELLMGSYLGKPGPPGPAP APEGQDLRNRPGRRPPARPAPR STPPSPPTHRVHHFYPSLPTPLL RPSGRPSPRDRGTLPDFVITPR RRYPHQTYQYSCPGVL
23382	53750	A	23517	1	392	KVHMNGLRYALYIMGPALTRG CHQVLMIMLCCVEIERILT/VMM KEAYFGEVDIMDDLPTGNISA NVTGRLYKCGVINHTVDLRRM KT/EKWQNNLLPSRQGFIVLTT SAGIMDHEEARRKHTGGKILGF
23383	53751	A	23518	227	352	

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23384	53752	A	23519	3	507	SFRAATMVRMNVLADALKSIN NAEKGKQVLRPCSKVIVRF LTVMMKHGIGYGEFEIIDDH RAGKIVVNLTGRLNKGVGQWRDLG YCNLCPLPGSSDSSASASLVAEIT ICGVISPRFDVQLKDLEK WQNN LLPSRQFGFIVI.TTSAGIMDHEE ARRKHTGGKILGFFF
23385	53753	A	23520	279	653	ARAQRFSSQVDVFYLIQSVIFCR LALAEFEIIDDQPSLGKLL*TLT GRLKQ/CLGVISPRFDVQLKRP WKKWHEIIL/PSNPAKFGFIVLT TSAGLHG/HHEGRQDRKHTGG KILGILLYRDVHIIFT
23386	53754	A	23521	1	392	KVHMNGRLRYALYIMGPALTRG CHQVLIIMLCCEVIERILT/MM KEAYFGEVDIMDDLPT/GNISA NVTGRLYKCGVINHTVDL/PPY ENGK WQNNLLPSRQFGFIVLT TTSAGIMDHEEARRKHTGGKILGF
23387	53755	A	23522	108	371	LSYIGKFEIIDDHRAKGKIVVNL TGGNLKCGVISLRFDVQLKDLEK WQNNLLPSQFGFIALTTTSAGI MDHKEAR*KHTAGKILEFFF
23388	53756	A	23523	252	378	
23389	53757	A	23524	3	518	HASAFRAATMVRMNVLADAL KSINNAEKGKQVLRPCSKVI VRFLTVMMKHGYIGYGEFEIIDDH RAGKIVVNLTGRLNKGVGQWR DLGYCNLCPLPGSSDSSASASLV AEITCGVISPRFDVQLKDLEK WQNNLLPSRQFGFIVLTTSAGI MDHEEARRKHTGGKILGFFF
23390	53758	A	23525	279	709	ARAQRFSSQVDVFYLIQSVIFCR LALAEF*NPLMTHQSLGKFVNN PHRAGLNKCGVISPQILTVQLQ RPWKKWAGLILLPSRQVLGFV VLTTSAGIMDHEEARPKTPRR GKSWGFFFLGDVNNYILFYKLLKC LMDSGASTWSF
23391	53759	A	23526	207	564	SMAKEAISINRSLWAGPAKISSP AETVIESLISLFQKYVVGKGGYN CTLSTEFLSFMNAELAAFTKN QKDPGVHLHRMMKKLGTNNDDG QLDFSEFLNLIGGLAMACHDSF LKAVPSSQKRT

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23392	53760	A	23527	1	407	FREKQSQELSQYGAMGAGQSF NSQFLQHGGPRGSPVPAGMNP TGIGGVMGPGSLPLAMNPTRA AGMTPLYAGORLPQHGYPGPP QAQP/PAPTGGQENLL*GVSR AVSARSLGPPFRAIPVSHLAGNP TPPMNP
23393	53761	A	23528	3	315	
23394	53762	A	23529	1	763	DYEETIDPTCSWKVPVVKPDM HIKEEPDGPALKRCRTVSPAHV LMPSVMEMIAALGPGAAPFAFL QPPSVPAPSDYPGQGSFLGPGT FPESFPPTPTPTLAEFTPGPPPI CYQSDIPSSLLTSEKST/SLPLQA RR/PPAGHLDPHTNPGTGLHTS NLGAPPGPQLHHSNPPASRSQ LGQASLGPTGELAFSPATGVMG PPMSGAGEAPEALDLLPELT NPDELLSYLGPPDLPTNNDDL LSLFENN
23395	53763	A	23530	1	2901	MERRGPGAATARGRARPGGGP SVGLLATGSSLNPSFHGVARIVP GFIRIARPRDGSFAYESVPWQQS ATQPAGSLSVVTTVWGVGNAT QSQVLGNPMGPAGSPGSSMM PGVAGGSSALTSPQCLGQQAFA EGGANKGYVQQGVYSRGGYP GAPGFTTGYAGGPGGLPLPSH AARPSTDFTAQAAAAAVAAAA ATATATATATVAALQEKQSQE LSQYGAMGAGQSFNSQFLQHG GPRGSPVPAGMNP TGIGGVM
23396	53764	A	23531	80	412	KPGNGACAGREWCDDGGGA NWRDPGLPVGDSGVWDRVLE LLGPRSPRPLDVGGPAAGTPGV LSR/HLPVDCGLGPEALLCSSAP AARRPSLCGGHGRVMRGFRLG CGFRP
23397	53765	A	23532	1	192	RPLDVGGPAAGTPGVLSR/HLP VDCGLGPEALLCSSAPAARRPS LCGGHGRVMRGFRLGCGFRP

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23398	53766	A	23533	1	2094	RPLDVGGPAAAGTPGVLSRPCPS TAALAPKPFCAAPRPQPDAPAC AGATGGSCADFDGSGVDFVRRR SSGLWGPQPLFPVKNYTEMFQ DPVAFKDVAVNFTQEEWALLD ISQKNLYREVMLDTFWNLTSIG KKWKDQNIIEYEQNPRRNFRS VTEEKVNEIKEDSHCGETFTPV PDDRLNFQKKKASPEVKSCDSF VCGEVGLGNSSFNMNIRGDIGH KAYEYQYEGPKCKCQPKKA FRYRPSFRTOERDHTGEKPYAL LKNDGKKPLFYHSSIQRHMVV HSGDGPYKCKFCGKAFHWLSL YLIHERHTTGEKPYECKQCGKS FSYSATHRIHERTHIGEKPYECC ECGKAFHSPRSCHRHSHMGE KAYQCKECGKAFMCPRYVRRH ERTHSRKKLYECKQCGKALSSL TSFQTHIRIMHSGERPYECKTCG KGFYSAKSFQRHEKTHSGEKPY KCKQCGKAFTRSGSFRYHERTH TGEKPYECKQCGKAHERHTTG EKPYECKLYGKALSRLISFRRH MRMHTGERPHKCKICGKAFSS PSSFQRHERSHTGEKPYKCKQC GKAFTCFHFQYHERHTTGEK PDGCKQCGKAFRSAKYIRIHGR THTGEKPYECKQCGKAFHWVS SFHRHERTHAGEKPYECKHCG KAFTCSIYIRIHERIHTGEKPYQ CKECGKAFIRSSYCRKHERTHTI

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23399	53767	A	23534	48	1317	CGLMDELVHDI.TSALEQTSEQ NKLGEELWEEMALSPRQRRQL RKRGRKRKRRSDFTHLAEHTCC YSEASESSLDEATKDCREVAPV TNFSDSDDTMVAKRHPALNAI VKSKQHSWHESDSFTENAPCRP LRRRRKVKRYTSEVAASLQKK LKVSDWSYERGCGRFSAKKQR LSRWKENTPWTSSGHGLCESA ENRTFLSKTGRKERMECETDEQ KQGSDENMSECTSSVCSSDT GLFTNDEGRQGDDEQSDWFYE GECVPFTVPNLLPKWAPDIHCS EVERMDSGLDKFSDSTFLPSR PAQRGYHTRLNRLPGAARCL RKGRRLVGKETSINTLGTERTS HIISDPQKDFWLPASAGKRERN QFNPLSPLYSLDLADASHRRRC SPAHC SARQANVHWGPCCSRDI KQEAETSGHSIFV
23400	53768	A	23535	225	403	
23401	53769	A	23536	1	403	REQEFHMAPGEVITVIRLIRS LEHRNFKPVVYHGVNLDQTV KEFIVFLKQDIPLRTNLPFPFRN YKYDALKIHHQAHSKTNELVL SLEDDERLLLKEDSTLKAAGIA SETEIGIFREEDYRNYKANPISS
23402	53770	A	23537	2	239	
23403	53771	A	23538	2	214	
23404	53772	A	23539	1	1341	
23405	53773	A	23540	1	1677	
23406	53774	A	23541	1010	1509	
23407	53775	A	23542	1	6355	
23408	53776	A	23543	223	10504	VKMPIGSKERPTFFEIFKTRCNK ADLGPISLWFEELSSEAPPYNS EPAEESEHKNNNYEPNLFKTPQ RKPSYNQLASTPIIFKEQGLTLP LYQSPVKELDKFKLDLGRNVP NSRHKSLRTVTKMDQADDVS CPLLNSCLSESPPVLQCTHVT QRDKSVVCGSLFHTPKFVKGR QTPKHIESLGAEVDPDMSWSS SLATPPTLSSTVLIVRNEEASET VFPHDTTANVKSYFSNHDESLK KNDRFIASVT
23409	53777	B	23544	137	709	
23410	53778	A	23545	1	1974	

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23411	53779	A	23546	207	1622	MACCLSDVEVKESKRINAEIEKA AAAETRRDARREL/RLLLLGT GESGKSTFIKQMRIHGAGYSE EDKRGFTKL VYQNI FTAMQAM IRAMETLAKILYK VRSRTRANA L/LIRGGGTLEKVTTFGAFSYVQ LPLKDLFGRDPGIE/CAYERQP RSYQLSDSAKYLT DVDRITL GYLPTQQ/DVPAGSRVPTT/GHIE YPPDLENIIFRMVDVGGQRSIE RRKWIHCFENVTSIMFLValse YDQVLVESDNENRMEESKALF RTIITYPW/QNSSVILFLNKKDL LEDKILYSHLVDFPRSSMGPO R/DAKAAREFILKMFVDLNPNS DKII/YTSHFTCPHRRRTSRFVF PAVKDTILQLNLEEKPLGSAP GPGRRDGDGTQDL PSTEPAAA RAGGAESGPGPLPAGGDFFFF IFLTNGFYFTVIRGCTSLPPYTSR TFSFVNGKGSFLALTYGSLFS KKKKKKKE
23412	53780	A	23547	1	401	KKVPGRLSEMSFSLNFTLPANT TSSPVTDCGPSLGLAAGIPLIV ATALLVALLFTLIHRRRSSIEAM EESDRPCEISEIDNPKISENPRR SPTHEKNTMGAQEAHIYVKTV AGSEEPVHDYRPTIEMERRR
23413	53781	A	23548	584	1071	PCRLPLHLILVEDLSFSLNFTLP ANTVSTAAPHQAT/PEKTSAEF TDCGPSLGLAAGIPLIVATALL VALLFTLIHRRRSSIEAMEESDR PCEISEIDNPKISENPRRSPTE KNTMGAQEAHIYVKTVAGSEE PVHDYRPTIEMERRRGLWWL VPRLSLE
23414	53782	A	23549	25	654	LFLQMKDTSPIIFVRKELTIRQC TKKVPGRLEMSFSLNFTLPAN TTSSPVTGGKETDCGPSLGLAA GIPLLVATALLVALLFTLIHRRR SSIEAMEESDRPCEISEIDNPKI SENPRRSPTEKNTMGAQEAHI YIVKTVTKSEEPVHDYRPTIE MERRRGLWWL VPRLSLGMMP TSNQGSHTQWHLGTGLKTQGF VLGEERCQAAS
23415	53783	A	23550	108	413	RRSGSMALWRAYQRAAAHP WKVQVLT/ALLGRKAALLAP CQ*LYLPQTQASWTEGHASCSSL QEATSCPSAFCA*NSKATKQLV ERRGLQEHRGRTLT.MVVS



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23416	53784	A	23551	1	146	
23417	53785	A	23552	2	442	GREARRSRSMALWRAYQRALA AHPWKVQVLTAVASGEEGSTA GMPMPVAIPADPGLLD*RTRFLL TPRSHFLPLCLLRMKLKS HKRS LMGLGDIISQQLVERRGLQEHQ RGRTLMTMSLGGCFVGPVVG WYKVLDRFIPGTTKVD
23418	53786	A	23553	3	675	RHSRFGAQGSMAWWRAYQRT LFALPWKIVQVLTAGSLMGLG DIISQQLVERRGLQEHQRGRTL E/TMVS LGGCFVGPVVGWYK VLDRFIPGTTKVDALKKMLLD QGGFAPSFLGCFLPLVGALNGL SAQDNWGQTTAGELG/RDYPD ALITNYLWPAVQLANFYLVP LHYRVAVVQCVAVIWNSYLS WKAHRALSLPHSIVSTLQVMQ LDPWNGSDNPPQKWA
23419	53787	A	23554	512	1227	LQGHLMGIMAASRPLSRFWEW GKNIVCVGRNYADHVREMRSA /VWLSEPVFLPKPSTGVRAQRA RPILMPAYTRNLHHELEL/ALVI GQRCRAVPEVAAMDYVGGVY ALCL/DMTAWDVQASARKKG LA WDSGE/DAFTASCPVQVSL PKEKIPDPQ/LKALGFKVNGEL RQEGETSSMIFSIPIIYSVSKIIT LEEGDILTGTPKGVGPVKEND EIEAGHTRAGQYDHLKVEKAQ
23420	53788	A	23555	192	436	RTSDHECFREGQICSVCLRERL NLNPEEACLLSQAPCMLFVLQY LNTVIPYEKKASPPSVDELQML \TNILFAMKEDNEKVP

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23421	53789	A	23556	94	1252	ARMEAPLVSLDEEFEDLRPSCS EDPEEKQCFCYGSSPHHLEDPSL SELENFSSEIISFKSMEDLVNEF DEKLNVCFRNYNAKTENLAPV KNQLQIQEEEEETLQDEEVWDA LTDNYIPSLSEDWRDPNIEALN GNCSDEIHEKEEEEFNEKSEN DSGINEEPLLTADQVIEIEEEMM QNSPDPEEEEEVLEEDGGETSS QADSVLLQEMQALTQTFFNNNW SYEGLRHMSGSELTLLDQVEG AIRDFWEELVQQLARRDELEF EKEVKNSFFTVMIEVQNKQKIE QRELMKKRRKEKGLSLQSSRIE KGNQMP/LKRFSGEGISNQLQSG IRQTFGSSGTDKQYLNTVIPYEK KAYPPSVEDLQMLTNLFAFM KEDNEKVPYFA
23422	53790	A	23557	391	1169	GSFFFFFKYFAYSPMPKNSKV KRELDVDTESVKDLLSNEDA ADDAFKTSELIVDQGEKEDTDV EGK/SEVEDERPAWNSKLQYL AQVGFVGLGNVWRFPYLCQK NGGVVEPECEQSSATYYWYR EALNIISSSISSEGLNWKMTICL LAAWVMVCLAMIKGIQSSGKV NTYDRVTMSATVLAHQEQWQT FSPIRSGNGHLTGSGAQRTPCRI RRGGSQRLVCDGGKQQWWTV SQSSARAITNTDQKSVQLQDLIE
23423	53791	A	23558	321	568	CLWCGASWPRRHSSPGRPAD HRGDRP/EGPDTQGPGRPEPSTE PAFNPQSSLDQGGGPAAPVD DDTRRGHGGVCGDGAGAEA
23424	53792	A	23559	510	690	LRSPQIRGVAAPPFLGSPVPFPGG FRVQGGMAGQPSAPPALQTD PYSKAHSVTPKSTPRVT
23425	53793	A	23560	25	480	
23426	53794	A	23561	84	292	VRAVQSLHFFPWR/ISCPSES TRSIHVDR/PRNSASLSAFP VSAGALINGEAWVRMGQVPIP KAP

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23427	53795	A	23562	1138	1924	CRSSATWTPWTTTTCRCRDLTK TYSLEAYDNWFNCLSMVLVATE VCRLLSPGSAMLRSPTATQVV KKKHRTRMLEFFIDVARECFNI GNFNSMMAIISGMNLSVVARLK KTWSKVKTAKFDVLEHHMDPS SNFCNYRTALQGATQRSQMAN SSREKIVIPVFNLFVKDIYFLPQ NP\SNHLPNGHINFKKFWEISRQ IHEFMTWTQVECPFEKDKKIPIS YLLTAPHPTARKLSSPSFESE PENHMEKDSWKLTRLTTLNRA
23428	53796	A	23563	3	260	
23429	53797	A	23564	1	1386	
23430	53798	A	23565	137	611	MKVNLDGSQLNACVFCRKH DCPNKYGEKKTEKWNLT YYCLLMSSGIWQRKEEGVY GFLIEDIRKEVNRASKLCCVC KKNGAFIGCVAPCRKRSYHFP CGLQRECFQFTGNFASFCWDH RPVQIITSNNYRESLPWHLLG NLFEPIPSY
23431	53799	A	23566	181	486	DPQGEAKGAAPAEGGGPV*W N\GLQGPAVGPGRDGSPGANGI PGTPGIPGRDGFKEGKGECLRE SFEESTPNYKQCSWSSLNYGI DLGKIAECTFTKMRS
23432	53800	A	23567	600	888	QYNGMCSPPGAGVPGRE ANGIPGTPGIPGRDGFKEGKGE CLRESFEESTPNYKQCSWSSL NYGIDLKGIAGRNCWHILAPVP NIVSLYFGS
23433	53801	A	23568	91	1170	ISLHRRPGPTCSMESPASSQ MPQSGKSKRKKDLRISCMSP PAPNPTPPRNLDSTFTITIGDRN FEVEADDLVITSELGRGAYGVV EKVRHAQSGTIMAVKRIRATV NSQEQRLLMLDLINMRTVDC FYTVTFYGFALFREGDVVICME LMDTSLDKFYRKVLKDNMTIP EDILGEIAVSIVRALEHLHSLKLS VIHRDVKPSNVLINKEGHVKM CDFGISGYLVDSVAKTINAGCK VKHGHESLN\PDNRRKGC HVVSLGITMIEMAFRLFYESW GTFPFQQLKQVVEHPSQPLPAGR FSPEFVDFTAQCLRKNP YLELMEHPFFTLHKTKETDIAA FVKEILGEDS
23434	53802	B	23569	111	193	

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23435	53803	A	23570	312	696	RP*SAHPEPGDCPSPPHPPRCGG VAQTAQVPDAPAPV*AG/QHSR SYMEDHLKKNRLEKEWEALC AYQAEFNSSFVAQREENVPKN RSLAVLTSQPTRNQCLPFLQHG PGDICTPVSISSIVLCHRV
23436	53804	A	23571	1	2974	QAAGMGPPPLLLLLLLLP VLPAAPSSVPRGRQLPGRGLCL LEEGLCGASEACVNDGVFGRC QKVPAMDFYRYEVSPVALQRL RVALQKLSGTGFTWQDDYTQY VMDQELADLPKTYLRRPEASSP ARPSKHSVGSERRYSREGGAAL ANALRRHLPFLEALSQAPASDV LARTHATAQDRPPAEGDDRFSES ILTYVAHTSALTYPGPRTQLH EDLLPRTLGLQPDDELSPKVD S GVDRLHMAALSA
23437	53805	A	23572	1	3202	ASRRLPRGHGLSAGQAAGMG PPLPLLLLLLLLPRLPAAPSS VPRGRQLPGRGLCLEEGLCGA SEACVNDGVFGRCQKVPAMDF YRYEVSPVALQRLRVALQKLS GTGFTWQDDYTQYVMDQELA DLPKTYLRRPEASSPARPSKHS VGSERRYSREGGAALANALRR HLPFLEALSQAPASDV LARTH A QDRPPAEGDDRFSESILTYVA HTSALTYPGSR TQLREDLLPR TLGLQPDDELSPKVD SG

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23438	53806	A	23573	1	1459	MPLTSQDQVQDKTA A WVPNTNRD STVPSDPWDCKRRPWPLLVLRP LAPGTKAPPGQNGRGRQKGS PCSRRLLEPAGPLGPASVRCIR TTTTQLLIITSLRFPSLEAAVGY GSNTCIFANACQMVFIMITWPY LQCIPYSVLLKDLERNRLRELE DLIEAVYTDIIQKGLDQRNQLL EVDVFCIGRDIRKKDINNIVKTLH EWCDCGEA\ALLGIEQQVLRAN QYKENHNRLTQQQVEAEDVVI LPQSGNDCRGLRFVSSLIGGVR CVHLKHKGDVAVWEAIEEGEA LPGKYRLKGGRSVWAAAVRA VCMDQVTNIKKTLKATASSA QEMEQQLAERECPPHAEQRQP TKKMSKVKGLVSSSPLGPAGA AGTHQAWVRWGGDTKGFPPL STCSEFQTCPSPHQRLPTLLVLF QKNCYSPSPTPSPFCSLQTQGL HQCHPKTGSDTAQLPSRRFLSL CKGLVSLPVFLLLPFRHFVRLVIK
23439	53807	A	23574	2	396	
23440	53808	A	23575	1	1014	
23441	53809	A	23576	110	212	
23442	53810	A	23577	1	747	
23443	53811	A	23578	323	495	GRAGKWHQTPE*SLRKAM*MF QILMMKMIVALARATSGTEAV AGRSWASGLRRSGRV
23444	53812	A	23579	26	229	
23445	53813	A	23580	1	574	
23446	53814	A	23581	889	1189	
23447	53815	A	23582	170	625	GAAVAALVRPNGGTAASHVCR EMRPLRPLQSRRCRRRTGISN MRALENDFFNSPPRKT VRFGGT VTEVLLKYKKGETNDFELLKN QLLDPDIDKDDIINW/LLEFRSS VMYLTKDVE/QLISILRLPWL NRSQTVVEEYLAFLGNLVSA
23448	53816	A	23583	166	455	RWKPSGTWPRNPMERPGH*ES VPKPGD*AKKSGGETRGRKEG NEHRETFSQIPDCHLNKKSQTG VKPKCKSVCGK VFLRHFSFLDRH MRAHAGHKRS
23449	53817	A	23584	3	3706	

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23450	53818	A	23585	1	1970	MVTDKAA AAGTHGEARPCWG SGSRVHTYRGAGERAMRVHRP MPREDSEVRREADGGKHEQRS FGDLHPTAAPAPAAASGCGTQPG RVKQPGWEQHREAPQORQPPV RPHGSHQLVTVRYERRPGGKE RARLRPGLGCPSGRTPQGRAPQ GTALPTAAAAAIFPSAALTSGQ RNASLPKFYFRGGTWGTSQSEA LCGKLSNQLGLEPLVPRIRLILS CGTSCGSSPRKDPGHPEAGNG PSRDFQLPSEERDSVAFEDVA VNFTQEEWALLSPSQKNLYRD VTLETFRNLASVGIQWKDQDIE NLYQNLGIKLRSLVERLCGRKE GNEHRETFSQLPDCHLNKKSQT GVKPKCSCVCGKVFLRHSFLDR HMRAGHGRSECGGEWRET RKQKQHGKASISPSGARRTVT PTSMRPYETKVCGKA/FIS/PIYF QIHQRTPTKRSYKCREIVRAFT VSSFFRKHGKMHTGEKRYECK YCGKPIDYPSLFIQHVRTHTGE KPYKCKQFGKAFISAGYLRTHE IRSHALEKSHQCQECGKLSICS SSLHRHERTHSGGKLYECQKC AKVFRCPSTLQAHERAHTGERP YECNCKGKTFNYPSCFRRIHKKT HSGEKPYECTRCGKAFGWCSSL RRHEMTHTEKPFDCQKQVKS
23451	53819	A	23586	86	390	LQSGDLPWEINPLSSCLLREKD PPTTSGPQTTSRNPISPNPELA THAGNLATGPRNARSPGFLLSR VPSVWDPTENRTVQLTWQPLP ELLELWPKVL
23452	53820	A	23587	1	502	MLLTQSLFGGLFTRTHMKFGA VTQIRGPPLDGKSPVLLLFALER QRRHVLMSDPKLRCSRTGKA AFPWCLIIAEMPDYSPTFQRQC TTQGRLPWSFTLSSKSRSFSG ARACYKCQKSDHQAKECPQG IPPKPCPICAGPTGNRTVQLTW QPLPELELWPKAL
23453	53821	B	23588	1	663	
23454	53822	A	23589	233	496	
23455	53823	A	23590	2	378	ERQRRHVLMSDPKLRCSRTG KAAFPWCLIIAEMPDYSPTFQR CQTQGRLPWSFTLSSKSRSFSG EGARACYKCQKSDHQAKECPQ PGIPPKPCPICAGPTGNRTVQLT WQPLPELELWPKAL

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23456	53824	A	23591	3	452	VRPRRDACLGPSPLAASPAFLG KGQVQPLISLCPDPLFPHNPLIS LRPNPLCPHDLVSLCPDPFPAF LEAHKNFQTPEPQQGPPIPEPPP PGACYKC/HEI*PPQGMPAAQ DSS*AMS/LSVRDPTGNQTVQL TWQPLPEPLELWPKAL
23457	53825	A	23592	1352	1540	
23458	53826	A	23593	177	383	EAMEPWKGVPGLGRVNTEQIAP FSEAEQPREIH*GSRKVRKAAQ GLNEGPRELFWQPLPEPLELW KAL
23459	53827	A	23594	1478	1744	
23460	53828	A	23595	23	178	SCLEVCDEQGPEKTRQRALRG VSSVTEDTLNICRLCWQPLPEPL ELWPKAL
23461	53829	A	23596	1	282	
23462	53830	A	23597	34	241	SGDLPWEINPPSSCSLLREKDP MTSGPQT/TSPRNISPISNPDTG NRTVQLTWQPLPEPLELLPKAL
23463	53831	A	23598	121	286	AASFYSSPTSLTIPQLSPFNLGV TLQSLPSLNFNSFLFWQPLPEPL ELWPKAL
23464	53832	A	23599	144	488	GYEIWCRDSQGTTFPWEINPPS SCSLLREKDPPTTSGPQT/TPR NISPISNLVSGFLLSPPSLTIPQ PLSPFNLGATLQSLPSLNFNSFH FLVETKETRIFIRGAKIPAPVTD
23465	53833	A	23600	471	677	
23466	53834	B	23601	67	555	
23467	53835	A	23602	1	1440	
23468	53836	A	23603	860	1209	IPGNCRDSSGVGIKERETNAGS QHMH/KNSSVHGYPRLCVEDE DAYKKQFSQYIKNSVTPDMME EMYKKAHAAPNPVYEKKPK KEVKKRWNRKMSLAQKKD WVAQKKASFLRA

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23469	53837	A	23604	1	966	MGFVKVVKNKAYFKRYQVKF RRRREGKTDYYARKRLVIQDK NKYNTPKYRMIVRVNTRDIIICQ IANA\RIEG\DMIVCAPYAHELP KIWV*RVGLTNYAAA\YCTGLL AGPAGFFHRFGMDQIYE\GQVIE LTGDEYNVESIDGQPGCLHPAY WDARPLPRTYPLAIKVFQCP*R GA\VDGGLVLFPHSTKTIPFGY DSVESKIEFNAES\IHRKPHPWAQ NVARLHAPTLMEEDEDA\YTK KQFSQYIKNSVTPDMMEEMV/Y RKAHAAIRENPVYEKKPKKEV KRKRWNRPKMSLAQKDRVA PKKASFLQSSRGLLESLTPAIFP
23470	53838	A	23605	1	644	ANSSPVNPVFFDVSIQGEVVG RMKIELFADVVPKTAENFRQFC TGEF/RVSFRCV*LLCLLQRGVL GLQ*GYR*TTCPW*MIAGDSDR RKDGVPIGYKG\STFHRVIKDF MIQGGDFVNGDGTGVA\SIYRG PFADENFKLRHSAPGLLSMANS GPSTNGCQFFITCSKCDWLDGK HVVFVKIIDGLLVMRKIENVPT GPNPKPLPVVISQCGEM
23471	53839	A	23606	638	1391	CPAYKGAHQVCVYCTLPPL QTRRVRRNPTLPTSASGSEPW RLANSSPVNPVFFDVSIQGEV VGRMKIELFADVVPNTAENFR QFCTGEFRKDGVPPIGYKGSTFH RVIKDFMIQGGDFVNGDGTGV ASIYRGPFADENFKLRHSAPGL LSMLTWPGKLTAGIFGFHQANS GPSTNGCQFFITCSKCDWLDGK HVVFVKIIDGLLVMRKIE\GMPC IFQPTWTHFLPVITTCALSALGSM LAAERGTKN
23472	53840	A	23607	2	591	ARAEFGTSRVGAMAVANSSPV NPVFFDVSIQGEVGRMKIEL FADVVPKTAENFRQFCTGEFRK DGVPIGYKGSTF\HRVIKGF\MI QGGDFVNGDGTGSRPVFTRGP ILQMKIFKL\RHSA\GLLSMAN SGPSTNGCQFFITCSKCDW/V WDGKHVVFGK\IIDGLLVMRKI ENVPTGPNPKPLPVVISQCG
23473	53841	A	23608	6	424	



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23474	53842	A	23609	3	470	DAWVSGRLTELPSCFFPPPIFRQ LLPVMPEPSKSAPAPKKGSKKA VTKAQKKDGKKRKRRESYS VYVYKVLKQVHPDGTGSSKAM GIMNSFVNDIFEIRIAGEASRLA HYNKRSTITSREIQTAVRLLPG \ELCKHAVSEGNTAVTKYTS
23475	53843	A	23610	93	421	
23476	53844	A	23611	2	1173	DHAAPRRRSRASVATVTRAGR CPTMSVRVARVAVVRGLGASY RRGASSFPVPPGAQGVALLR DATGAEEEEAPWAATERRMPGQ CSVLLFPQGGSQVVGMRGGLL NYPRVRELYAAARRVLGYDLL ELSLHGPQETLDRTSQVQSPGT GIPRRVRAHVLHLSPOVIENC/V VS/AGLAFSPSFCALIFPNALL/F WPGLYAVKIRAEAMQEASEAV PSGMLSVLGQPQSKFNFACEA REHCKSLGPNVQICKGGFLGH CSAETSFLPQALRFLQKNSSKF HFRRTMLPVSGAFHTRLMEP AVEPLTQALKAVIDIKPLVSVY SNVHAHRYRHPGHIHKLAAQQ LVSPVKWEQTMHAIYERKKGR GFPQTFEVGPRQLGAILKSCN
23477	53845	A	23612	187	425	
23478	53846	A	23613	1	1258	MKAYLLGGAAPLPWFPGQAV FRPCPPAGLWRTAQLVELEHG PVPREDLIPCSRPFISFLGPERV DGLAFPRIQALGIAAARGMEPK GAPGKSDSGNSRSAGGRVLGC QGAALVEVCSAGRGPPVRLAV GCVLLRAPERGWRRGEGAARG IPAGRSSSELGALSPOVGVRSDI GINGNIWHPGVQTDFFSLKRSQ GLYAVKIRAEAMQEASEAVPS GMLSVLGQPQSKFNFACEARE HCKSLGIENPVCEVSNYLFPPDC RVISGHQEALRFLQKNSSKFHF RRTRMLPVSGAFHTRLMEPAV EPLTQALKAVIDIKPLVSVYSN VHAHRIQIPGHIHKLAAQQLV SPVKWEQTMHAIYERKKGRGF PQTFEVGPRQLGAILKSCNMQ AWKSYSAVDVLQTLHEVDLPD

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23479	53847	A	23614	2	1050	GRCPTMSVRVARVAWVRGLG ASYRRGASSFPVPPGAQGVAE LLRDATGAEEEEAPWAATERRM PGQCQVLLFPQGGSQVVGMGR GLLNYPVRVRELYAAARRVLGY DLLELSLIHGQETLDRTVHCQP AIFVASLAAVEKLHLHQPSVIE NCVAAAGFSVGFEAALVFAGA MEFAEGLRFLQKNSSKFHFR TRMLPVSAGAFHTRLMEPAVEP LEKLLKAVDIKKPLVSYSQR PTRIRLQAAPGNIQSCLAQQQLG LPK*KWEQTMHAIYERKKG/R RGFPQTFEVGPGRQLGAILKS CNMQAWKSYSVAVDVLQTL VLDLPQEPKMTGRGLKNDP LCPPEERL
23480	53848	A	23615	600	905	QAPASGSPWLSGGPQQVEDAG AGYGFAFGQPPPPRTQPRSAC SRRAAG/TPVPRAPPAPSAG/PK ARAPRSLGCGSLGRFSTGVRPD KCIFPETENAAAGCF
23481	53849	A	23616	390	722	QAPASGSPWLSGGPQQVEDAG AGYGFAFGQPPPPRTQPRSAC SRRAAG/TPVPRAPPAPSAG/PR AAAPRSLGCGSLGRFSTGVRPD KCIFPETEMSYLLFRNTVSRRC C
23482	53850	A	23617	1	673	MGQVKGHKLCDFTLLSPDGG AAEGRCLELGWQAKEVEETIE GMLLRLEEFCSLADLIRSDTSQI LEENIPVLKA/KLTKIMRGYAK VDRIKAFVKMVGHHVAFLEAN VLQAERDHGAFPQALRRWLGS AGLPSFRNDPTAPLRQVFEASP DPRLARTVTIQTQPPVRVSGPL SGQRKEKSLQKGAQVFQTNVP ETLLEGAISPAPACGGPLTSGD GFRHVRK
23483	53851	A	23618	1	651	
23484	53852	A	23619	195	497	DQFLENTKKCDGLNQLSFDPA NNNKPLEFGRARGPLVTEGLIE NGGESSKKRRRTNSSADNSRT LNVDSMTATLPMSPATAWATA MNNFGMAPVRJVGH

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23485	53853	A	23620	241	1823	NDDRKFVTEHTMQDRFRW LWVYEIGYAADNSRTLNVDS AMTLPMSDPTAWATAMNNLG MAPLGIAGQPILPDFDPALGMM TGIPPTPMMPLGLIVPPPPDM PVVKEIHHCKSCTLFPNPNLPP ATREPPGCKTVFVGGPLPENG EQIIEVFEGCGEIIARKSKKNF CHIRFAEYMYDKALYLSGNR ELKKFLNKEDNYFRKINLTALY KTVLEERCEKRRGGYRIRLGSS TDKKTGRLHVDFAQARDDL EWECKQRMRLAREERHRRRMEE ERLRPPSPPPVHYSDHECSIVA EKLKDDSKFSEAVQTLTWER GEVNRRSANNFYSMIQSANS VRLVNEKAAHEKDMEEAKEK FKQALSGILIQFEQIVAVYHSAS KQKAWDHFTKAQRKNISVWC KQAEIRNIHNDELIMGIRREE MEMSDDEIEEMTETKETESEL KKLEGIVDGSVEVSAEALRKL NEYERQVKEEQKVGYRIWGT HNKGEGKKEFAEELEKSSSER
23486	53854	A	23621	996	1512	RPVHLASPAKEQGGTRKGRRA PARLPVPTTGRGLEKGPESQAP PSFRQATGRFSRSGSGGPTPSK NSRDCSHTPQLPTPRGNPVVFP PGHPEPSRPVEMPAPGEPRTRQ LCRERTRKACPCKPRPPLGLPG DPTGPVTHHAPPVSPTGASGQE RRAEPGAVSYAHASATK
23487	53855	A	23622	293	1140	PRGILHQDKNLVVINKPYGLPV HGWPGWQLCITDVLPIAKML HGHAKEPLHLCHRLDKETTV MVLAWDKDMAHQVQELFRTR QVVKKYWAITVHVMPMSAGVV DIPIVEKEAQGGQHHKMTLSP SYRMDGKMKVVRSSRNAQV AVTQYQVLSSTLSSALVELQPI GIKHQLRVHLSFGLDCPILGDH KYSWNR LAPQKLSVGTLLKLL GLEQSKARYIPLHLHARQLILPA LGSKEELNLVCKLPRFFVHSL HRLRLMPNEDQNNENAEKCL

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23488	53856	A	23623	1	1328	MAVDLGSHTPGSSGVTAATFR GRLVNTREESVVLGAGGEVL SGVPGTWDALGPGASFGIKGM FPKGTVMSTSPMCEGPVPRRK PCASSVQQNSRSRKKAGRKTP TLAGRHVPVKIKKEAIQKPLP ASSFSPALTRSGAIFGPCALTS APVLEYPLQKVVENEAFFVFN NRDEESKRQKQAEFRMLTSAIR GPAGPRGHSSTRKPPSNPPPPGA CFKCGNEGHRSRQCPNPGTTSQ EALIALTRALTLAAGQQINIYS NSHYVFHIVHSHSSIWKERGILT AKNTPAINGSLINKLLKAARLP QKVAIHICRGHQTTPDNPILAGN VLADQVAKQVALQPVGQQLS LSLFSPLYSSEEKEDFRAQNLQ KQGPW/LQSQGARLLVPAACAS KVAEAGRKPAGRHVPLKIQKE AIWSSPFSVPMATRAAASTSPT
23489	53857	A	23624	475	622	IHSKVLFSASSSSC*NTNNSWFR ASIKKNPEKQKNMNMQSAIPQHG LWKI
23490	53858	A	23625	17	992	GRGEVLRRGRGQLDAVLSRE HCGGSRQSEQPWSRRSSSSSR RRLRSAEPAMALSMPLNGLK EEDKEPLIELFVKAGSDGESIGN CPFSQGLFMILWLKGVVFSVT TVALKRKPADCQNLVPGTPPP LILFSSEVKTDVKNKIEEFSEEV CPPKYLKLSPKIHPRSN TAGMDI FAIKFSAYIKNSRPEANEALER GLLKTQLKLD EY/LNS/PLP/DEI DENSMEDIKFSTRKFLDGNEMT LADCNLLPKLHIVKVVAKKYR NFDIPKEMTGWIWRYLTNAYS RD EFTNTCPSDKEVEIAYS DVAKR LHQVKSRLLEKVSFMSPP

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23491	53859	A	23626	1	1128	MALASGEGLPVALSHGRRNGG QERVYPYLKLRDTCAYRVAWRC NRLARAKVKRTSYRSGYNGGF EPGVEPDCVLLALGVENDLV RISSKAKEYSLYEFSFPLRVSRE CEECECRKEPWFNPQKPSVLIT SGQILGQEEQKTLFPGLILSLVF QFNVENSDLRCLSLAENLEISAL LSLSCSSVIRLILINLEVTISPPITI LKHAPPLTSLAASSSSSGIEKKIH NNFRQGPFPSSATRSTFLMNH TFDYSVVVSNIVPRLNLYPQVL DVLQSLHKIHQLASNAKWTIQG PAKPDILGLEILHRYPDWEKE ERKKKKRKRVSPEKSITTHNKP TSSGIFY/RPRRCGCDLGRPPAP GPHPSPPHSPQPSRCPPV
23492	53860	A	23627	3	453	SLGKDIRPRSARAACKGVGLWS GCFGKMAGSGVRQVTSASTF VKPIFSRDMNEAKRRVRELYRA WYREVPNTGER*RLVRPAVLK HSYVANRSF
23493	53861	A	23628	3	695	PYASRRKFRVDPRVRAWSGCF DKMAGSGVRQATS/TASTFVKA HFSVGMDMNEAKREGARVLTAP WYRLEVNTVVRVHQQLDITV KMGRDKVREMFMKNAHVITDP RVVDLILVIKGLIELEETIKVL KQRTHVMRFFHETEAPRPKDF LSKFYYVGHDPKLSFSGKDAR WILFLGAQIKLTIQWSLCDRIPL MNQFSAASFCLSKWGPWVLIHI TCSFPFSWKCGVCCKLD
23494	53862	A	23629	82	441	SLPINVPVPTACTLQAGLLRPPG SDVRTPMLPPSAPSQPSYPTSRP PLWPTWPA GPVFRSQPLAQPN LPRSYHQQAPGGQTPVALGLE\ CPKATNQPFGLQRDPKSPAKV PPFEESL
23495	53863	A	23630	3	504	DRSSSSTMTSGDGFNPLRKFK LVFLGEQSVGKTSLITRFMYDS FDNTYQATIGIDFLSKTMYLED R/TNVNSFQQTTKWIDVDRTER GSDVIIMLVGNKTDLADKRQVS IEEGERKAKELNVMFIETS/AKA GYNVKQLFRVAAALPGIMPS VLFQIIPSQALTRYLC

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23496	53864	A	23631	416	1239	GGGRSSSTMTSGDGFNPLRK FKLVFLGEQSSIGKTSLITRFMY DSFDNTYQATIGIDFLSKTMYL EDRTIRLQLWDTAGQERFSLIP SYNRDSAAAVVVYDITNVNSFQ ANYKSGIDDVRTERGSDVIM LVGNKTDLADKRQVSIIEGERK AKVELNVILMETSAGVYNVK QLLSTCKQPALPGMESTQDRSR EDMIDIKLEKPPQEQPVSEGGFL LTNLCHLQPFQKLTGFWPPY SFIDCSVNIGLMPFFSNNVLRFI IAACPAWR
23497	53865	A	23632	1	493	PKPATAPPPSLRARFLCPQRRP ERARPRARGASPRPEKTAGAR KRRRGSCERPHPGG/RPPAPG*I SSRPTLGFFWILNFFLLKKLGRI KDVPWQDSTKEHLSVCRGLRG TWSVPSADPLHPAARRTCFRV PPTTGAREWWHLHPPALQRP DSRQCHRI PVC
23498	53866	A	23633	1	560	MESIWAGLWTAQDITVLADDF EFILWTLKRRPERARPRARGAS PRPEKTAGARKRRRGSCERPH GGLRLPGARDQAPRSDAG RSPGRLRLPALCAGPLSPGRE PRRWEPRAGVARPAGQQWGFF WPGNQQGASICSLLWFLLECG SRSTGGPCSGTELGHFSRERPTV LLSRLGTVKRP
23499	53867	A	23634	32	327	LTQRLFGLFTRTHMKFGALTR IGIDLPEWENPLSSICLLPEKDP PMTSGPQTDQPKHLTNFKSAA RRSSRTSSHRNLLHVLEIWQLD QGMPAARD
23500	53868	A	23635	2	424	LTPFSDSAHLHPGEINSPVAHTK PVGGLFTRMRVTFGAKTQDRS TPIQETSPSSPS/PVTSGPQTNQ PKEHLTNFKLGKQSFHSSHASL ATLQSSSLATLQSPCPSNSNSFS SLVETRRRPGAVARLQSQLSGR LRGRIA
23501	53869	A	23636	31	246	TAILLTQSLFGGLFTRTHMKFG AVTRIGDLPGWGINPLSSCSLR EKDPLTISGPQTHQPKHLTNF KSGPH

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23502	53870	A	23637	125	464	TAVFLTQSLFGGLFTRTRMKFG TMTRI/RGDLDPWEINPLSSCSLL HEKDPPTTSGPQTNPQKKHLTN FKSRKVERTKGLKTHLTKLSH QLKKAWTILLPLSLRIQACPR NAT
23503	53871	A	23638	1064	1304	TAMLLTQSLFGGLFTQMCMKF GAVTRIG/DLPWEINPLSSCSLL HEKDPPTTSGPQTDPRKEHLNF KSGACYTCRKSGH
23504	53872	A	23639	539	747	TAMLLTQSLFGGLLTRTRMKF GALTRIG/DLPWEINPLSSCSLL HEKDPHTPSRKIHIRPQGNHESQ KGL
23505	53873	A	23640	709	950	TALLLTQSLFGGLFTRTHMKFG AVTQIGDLPWENQSPVLLCSLL REKDPPTTSGPQTDQPKHLTN FKSGKWSFHSSPAF
23506	53874	A	23641	1	1257	MGKKVLGIASQLLGAVRCEPD GRRVLPEDWPECLSLVTHGTW FTRQGDKNIQMADNSFSDGVPS DFVEAAKNASKTEKLTQDQVMQ NPGVLAALQERLDNAPHTPSSY IETLPKAVKRRJNALKQIQVRC AHIEAKFYEEVHDLERKYAAL YQPLFDERREFITGDVEPTSDM ESEWHRENEEEKLAGDRKNK VVITEKAAATAEEPKNKGIPEF WFTIFRNVDMSELVQYDEPI LKYLQDIKFHFQPNDCFANSVL TKTCKMKSEPDKADPFSFAGPE IMDCDGTIDWKKGKNVTVKI IKKKQKRKGPQVTRITKQVSN ESFFNFNPLKASGDGESLDKD SEF/ASDFEIGHFRER/PQAVLY FAGEALKDDDNFDEGEEDDEL EGDEEGEDEVEINPNKEPSQ
23507	53875	A	23642	132	1277	
23508	53876	A	23643	1	515	RVRHRSVSVGSTHASAHAYGE GSLRIIPVTRSPVLTMNHIVQTF SPVNSGQP/PNYEMLKEEQEVA MLGAPHNPAPPTSTVVIH/IRSET SV/DPHVV/WSLFNTLFMNTCC LGFIAFAYS/VKSRDRKMVGVD TGAQAYASTAKCLNIWALILGI FMTVLLHIIPVLVYQAQR

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23509	53877	A	23644	243	643	NHTVQTVFFSPVNSGQPQRM CIKEEHEVAVAGGPHNPAPPTS TVIHIRSETSVADHVVWSRVQ TPSSMNPC/CLGFIAIRLTP*SLR DRKMVGDDVTGAQA\YASTAK CLNIWAHDSGASVMTILLIVIPS
23510	53878	A	23645	3	1498	RCNFLRSSRIRVHPTPAASTMP KFDPNEIKVVYLRCCTGGEVGA TSALAPKIGPLGLSPKKVGGDIA KAMGDWKGRLRITVKLTIQNRQ AQIEVVPASAMIIKALKEPPRD RKKQKNIKHSGNITFDENGNIC STDMR/HRSLSRELSGTTKEILG TAQSVGCNVGDRHPHDIIDDIN SENDKQPRKSKMRTSFSPQIPG HEHFHYLLLLQHVCQLALTL RARKEGSSTHHQLSTYYFKEG NSKEPKIQRNTELKKEEGG GGSGKAPGSEIKLESPACSGASL GEMTAWTMGARGLDKRGSEFF KGPLPNTCGHFWEVMEQKSR GVVMLNRVMEKGSVEFVTEL FFYVALPKMFPVHYIVILLASKL EEVTFNFPPLDCTPFLQNYLR VAFQEVNSGCTGKTLVVPYIT TEDVCQICVEKFKVGDPEEYSL FLFVDETWQQLAEDTYPQKIK ELHSRPQPHIFHVVYKRKNDPY GIIFQNGEEDLTTS
23511	53879	A	23646	361	918	GCTGSRGTVPVLSALGPQRJGPP GSCLQKSWVNDICRQPG/DW KGP*GFTVKLTHSRGTQAPDCT RVP/VLSPCP*FIQSPREPPKRPE KKPEKTFKHQLGIFTFLNEICST LLRQMRVHRSLSPEKLSWNPT* RDSWGIAQFSGAVNVDG/RH/P HD/IDDIQQWVLWKCPRLST KENIFNKGII
23512	53880	A	23647	1	642	



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23513	53881	A	23648	894	2438	VETKRIQPQPPDEGDHSDKED EQPQVVVLKKGDLSVEEVMI KAEIKAAKADEEPTPADGRIIY\ RKPV\KHPSDEKYSGLTASSKK KKPNEDEVYQDSVKKNSQKLII NSSLLSFDNEDENDTEKSMENL TGKIRKLQLRIVDPTFLPKLSNK GKDPVAVARLETGKGNKGAFR VLRDISRWATLCTSPQHSSEA KNIIPIYQATQFQNEVHKWYKK KGGKIKSKRKALFFLTQDIQKK LQKLALGPNTPTPDILKIASLVF YNQDQEEKERAAQNERQKEKL YWL.SYKSASPFQVALRILSQET THKDELPTDLPNNPEVQAPGIP GNTIMAMPVAIQLKDPSSYPGR IIVPEIASWIHRTQVKLWKSPE TSELEPTPSVIEYTREALEDLKF LFFKQDNSSAKTPGRAYAASPR DWTSEIAELHIFYQWDPNLKG MFKPASLLAKVKQDFPDHKE PIFAIFSNITLMGIAPICVTGKTI KKRTRQHHTTPKSNLREQASQ GSLNWEKN
23514	53882	A	23649	200	1727	RTATSLDSVLKSDYMTWKYR VSFFYILSCRLLKK/QCTDNEHV YMEISKLYKYPCKEWWKEAS KVRQYEVTVVWSKRGDYILK HIPNMHKDQFALTASEAHLKYI KEAVRLDDVAVHYRYLYKDK REIEASLTGLTMRGIQIFQNL EEKQLLYDFPWTNVGKLVFVG KKFEILPDGLPSARKLIYYTGCP MRSRHLQLLSNSHRLYMNQ PVLRIHRIKLEENEKKQYRESYI SDNL.DLMDQLEKRSRASSSS AGSMKHKRLSRHSTASHSSHT SGIEADTKPRDTGPEDSYSSAI HRKLKTCSSMTSHGSSHTSGVE SGGKDRLEEDLQDDEIEMLV DPRDLEQMNEESLEVSPDMCIY ITDMLMSRKLNGHSGLIVKEI GSSTSSSSETVVKLRGQSTDSL QTICRKPCTSTRHSLDDIRL YQKDFLRIAGLCQDTAQSSTFG CGHELDEEGLYCNSCLAQQCIN IQDAFPVKRTSKYFSLDLTHDE
23515	53883	A	23650	182	423	RLSIMASSLNEDPEGSRTYVKG DLFACPKTDSLALHCISEDCRM GAGIAVLFKKKFGVQELNLQ HYKEKGLRTSGLYG

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23516	53884	A	23651	1	249	
23517	53885	A	23652	435	494	
23518	53886	A	23653	163	578	RVTWLK KHLNSGNSDSVCMAS SLNEDPEGSRTYVYKGS LFEGP KTDFLAPCISED CRMAGITVL FKKKFGGVQELLNQKKSGE VAVLKRWRWGLYIFTWTKRK RAFAQSPLYENLT EFRGQLKS HLSEEWSH
23519	53887	A	23654	1	2238	
23520	53888	A	23655	26	1941	RDAGTKWQRLGHLSCICRQQA AREIIMHFQAFWLCLGLLFSI NAEFMDDDDVETEDFEENSEID VNESELSSEIHYKTPQIGEVYFA ETFD SGRLAGVLSKAK/KVD MDEEISYDGRWEIEELKENQV PGDRGLVLKSRKHHAISAVLA KPFIFADKPLIVQYEVNFDQDID CGGAYIKLLADTDLILENFYD KTSYIMFGPDKCGEDYKLHFIF RHKHPKTGVFEKHA KPPD VD LKKFFTD RKT HLYTLVMNPDD TFEVLVDQTVNKGSLLEDVV PPIKPPKEIEDPNDKKPEEWDER AKIPDPSAVKPEDWDESEPAQI EDSSVVKPAGWLDDEPKFIPDP NAEKPD DWNEDTDGEWEA/PQ ILNPACRIGCGEWKPPMIDNPK YKGVWIPPLVDNPNYQGIWSPR KIPNPDYFEDDH/PILLTSFSALG LELWSMTSDIYDFNFIICSEKEY ADHWAADGWRWKIMIANANK PGVLKQLMAAAEGHPWLWLIY LVTAGVPIALITSFCWPTKVKD RHSLEYIIPDICIPQTKGVLEQE EKVEKA ALEKPM DLEEEKKQ/N DGEMLKEEESEPEEKSEEEIIEI EGQEESNQSNKSGSEDEMKEA DESTGSGDGP IKS LRKRRVRKD
23521	53889	A	23656	297	398	
23522	53890	A	23657	286	430	TAGARCSSRTSSPGSCFNQKS GHWARNARSPGFLSRVPSVN WIHI
23523	53891	A	23658	405	524	ARMSVACLPGFLFICLRGDFKQ NLTA YCWKC YQL* RSLGTHS
23524	53892	A	23659	1	657	
23525	53893	A	23660	22	334	ALKHFC LSLIFS VTTMKFLAV LVLLGVSI FLVSAQNPTTAAPA DTVSSLLVLLMMKPLDAETTA AATTATTAAPTTATTAASTTAR KDIPVLPKWVGDLPNR

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23526	53894	A	23661	1	270	
23527	53895	A	23662	1	284	
23528	53896	A	23663	111	281	
23529	53897	A	23664	229	363	
23530	53898	A	23665	250	586	PVRHGAFQDKSSDKKVQTKG KRGAKGKQAEVANQETKEDL PAENGETKTEESPASDEAGEKE CQCLINNHIPCLISGPCLPSCTIQ RNINIFYVFNASFLVALETFLLKK
23531	53899	A	23666	3	478	APAVGLSSSGGRRSGSOKAARF REGCRRAAARMQQAAGTRLPR RHPARAFPAATMPKRKVSSAE GAAKEEPKRRSARLSTKLPAK V\EA KPKKAAADKSSDKKV\Q TKGKRGAKGKQAEVANQETK EDLPAENGETERLEEESLLIEA GEKEKPKS
23532	53900	A	23667	1	252	
23533	53901	A	23668	328	414	
23534	53902	A	23669	1	3156	
23535	53903	A	23670	1887	2036	
23536	53904	A	23671	3	212	
23537	53905	A	23672	22	539	YEGIVMKPLIIVNPADICG\RT CE\VA CVVAHPSEQELNADVFL PRLKVQPIWTVSAAR*CCPFSS ENAP\CVGA\CPVGA\LTMGQV VQTNSARCIGQSCVSACPFGM ITIQLPGDTRQIVKCDLCEQR EEGPACVESCPTQALQLTERK LRRVRQQRIVVSGENPL
23538	53906	A	23673	135	302	PIHMKTRQPRDQFSADCVFLQS TCPVPC*RNRL*TPGGYWRTRR DYLRCDRSVHV
23539	53907	A	23674	175	794	LSTHSQPIADAADPPPHLHTGEL LCSAHQADFVSAEPARPANN NAATTAPVHAVAITPPAYPDCF RTLPKLSHQDSTQRLYGIAL LLRISTSGPPSRLKVQRLDSISA PV/MCHQCENAPCVGACPVGA LTMGQVQVQTNSARC/IGQSC VSACPFGMITI/QLPGDTRQOI VKCDLGCALRDCVAVLRQRN SRVVLDACTRA
23540	53908	A	23675	2	434	LISLPFPDLSLAHRPSSAPTEPQ GLFTVAAPTGPASPATLAHL LPTPAMYSLLETENKPNVGTPT QAAGTGGPAAAG/GRKMALEN PKMHNSEISKRLGADWKLLTD AEKRPFIDEAKRLRAVHMKEYP DYKYRPRRKTTL
23541	53909	A	23676	3	264	

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23542	53910	A	23677	1	2377	MDDTFLNYKYKNKCGPKHIKK KEEEEEEDNNSNDSKNKDKTLT TGSSGSAKIFLMRGRRQLLLP TSLCLLSVQRSPGSHSGPPQS MNPRLSPQGYLKNDFLDVIG MCDIACHLVVELVGNNGNFL AHAFHVEVVAQQNQRENAA RPNGGSVMIGQGASLRTCQSRV LRVARGGSPNPGSEQGLFTV AAPAPGAPSPATLAHLPPA MYSLELETKNPNVGTPTQAAAGT GGPAAPGGAGKSSANAAGGAN SGGSSGGASGGGGGTDQDR VKRP/MNAFMVWSRGQRKKM APENPKMHNSEISKRLGADWK LLTDAEKRFIDEAKRLRAVHM KEYPDYKYRPRKTKTLKKD KYSLSGLLPPGAAAAAAAAA AAAAAASPVGVRQLDITYTH VNGWANGAYSLVQEQLGYAQ PPSMSSPPPPALP/MHRYDMA GLQYSPMMPPGAQSYMNVAA AAAAASGYGGMAPSATAAAA AAYGQQPATAAAAAAAAAAM SLGPMGSVVKSEPSPPPIASH SQRACLGDLRDMISITGRENIFV VGDPAAACLLPIEMEETFLPWPL GFEDRLHLEGRPVQEIPIFLRK VPNCGQWLLQTPSVEPADPWE NPQAFPPSLQEQPCLSLIVGIF VEAFGGGRGWGSKGKKPKRYR TVEWMRIHQPSICCLQETHLTR
23543	53911	A	23678	1	399	

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23544	53912	A	23679	3	1216	LGNKRAGLRRADGEAPSALPY CYFLOKDAEAPWLSKPAYDSA ECRHAAEAALRVAWCLEAASL SHRPGPRSGLSVSSLRPTRKMA TTFLAHEKIWFDFKFKYDDAERR FYEQMNGPVGASRQENGA/T VILRDIARARENIHKSLAGSSGP GASISGTSGDHGLVVRASLEV ENQSLRGVVQELQQAISKLEAR LNVLGKELRLAHRGTAPQTQH VSPMR/QVEPPAKKPATPAEDD EDDDIDL/VGRDNEEEDKEAA QLREER/LRHYAEKKAQESLP LGGQVPPSLLDVK/PWDDSDM AQLEACVRSIQ/LGTGRSWGAS QMVA VGYGIRKLQIQCVVEDD KVGTDLLEEITKFEEARARSV DIASFSTRSEALKCVYVAHVRE GPCTRSKDLRPAKKKKKK
23545	53913	A	23680	1	2066	MAAALRAPTOVSAASSRPLPS PPTEGRVKGFQPGPHCPAQ LCSGDDGSDNELEQKREVI PHEAPVAEHRQQTGLRELVAI PKRKEETTAIVQVFVAFEDVAI YFSQEEWELDEMQRLLYRDV MLENFVMAASLGCGWGA VDEGTPSAESVSVEELS QGRTPKADTSTDKSHPC EICTPVLRLDILQMI ELHASPCGQKLYLGGAS RDFWMSSNLHLQLQKLD NGEKLFKVDGDQAFM MNCRFHVSGKPFTF GEVGRDFSATSGLLQHQ VPTTIERPHSIRHLRVPT GRKPLKYTESRKSFR EKSVFIHQQRADSGE RPYKCSECGKSFSSGFL RHRKAHGRTRTHEC SECGKFSRKLTHLTQH QRVHTGERPYDCSEC GKSFQVSVLIQHQRVHT GERPYECSECGKSF SHSTNLYRHSRAHTS TRPYECSECGKSF SHSTNLF RHWRVHTG VRPYECSECGKAF SCNIYLIHHQRFHT GERPYVCSECGK SFGQKSVLIQHQRVHT GERPYECSECGK VFSQSSGLFRHRR AHTKTKPYECSECEK SFCKTDLIRHQT VHTGERPYECVCGK SFIRKTHLIRHQT VHTNERPYEC DECGKSYSQSSALL QHRRVHTGERPYE CRECGKSFTRK NHLIQHKTVHTGER PYECSECGKSF

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23546	53914	A	23681	1	468	MAAQVQGA VRV VRA VAAHEEP DKEGKEKPHAGVSPRGVKRQR RSSSGGSQEKRGSRPSQEPLAPP HRRRSQPPTSWAAA VNDM/PAP TVPGPVEPLLPPPPPSLAPAG PADDAPLPAPSTSGLFTFSPSLTA SAAGPKHKG TQGAQAQAPSPRP RW
23547	53915	A	23682	950	1326	RPESQRANGVDSGPNLKTVPQP DTRKGSVLK WSKRGKPLAVEI EESHCLCLPLRTECLGIKP/IVH LFSCTRPVIVPSLELNYDVDSIA HMFVADLLMITLPSYDIPFYC LVFQNL L VLEFQYL
23548	53916	A	23683	271	918	NQGLRDLGLRCLVNMFTSS ILGKGHRHSLVSIKQEHSLARK AAGVPLPKVGYC/QGFSPCDSL KYGSWDEKDLTVPPDTHKGS VLRWISKRGKPLAVEIEEG/HCL PELPPGELECPG/ILKHGLYHWS SSEMGEINRPMVG/ARHVYSNA ALLFF TALRIFQRRNINLGLRA HPGIVPPLELNYDIDSSAH/FF LADLLIITLPSYIIFC
23549	53917	A	23684	1	942	
23550	53918	A	23685	346	1753	TWIPLSRTGRFPVFCSSSRVY AISFHKRWKEGRGCFGRTRGE MGWEGRSRSLKELNTRNDWNP GERELDFWKITRFKEAASWTL EAL EEAGSTARRRVWLEDGRR TCEILSVLCTSSLSNCASLDCV TYKALSTTRLYDSVYWNKKPE RSSSPATEQSWTENDFDKLREE GFRRI NYSELKEEARTHGKEVI NLEKK\DLRLTRJTNAEKSLKD LMELKTMAREL RDECTSFSSQF DPLEERVSVMEDQNMENK/QE EKFREKRIKRN/EKQSLQEIWDY VKRPNLHLIGVPESDRENGTKL ENTLQEI IQENFPNLARQANIQI QEIQRTPQYSSRGATPRHIIVR FTK VEMKEKMLRAAREKGRVT HKGKPIRLTADLLAETLQARRE WGPIFNILKEKNFPRIAPAKL SFISEGEIQYFADKQMLRDFVTT RPALKELKALNMERNNWWYQ PLQKHAKW
23551	53919	A	23686	73	327	GALQPTAALWEPLSGLAKAAA RSLSLQGGVEGDARAGTGAAR GACGPGAGVPGGRGLGGPALGA AGRPGP*LPSRGAGLGTAAARHA

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23552	53920	A	23687	322	402	DQEPNTSGHIGNLEQCLGHGYQ R*LFP
23553	53921	B	23688	545	3063	
23554	53922	A	23689	1	579	MKHEKRDRCAELTAILNEQAS PMCTIVLGYTGTSTITLPTTSCH FAPRLSNSQQHSSYQVGHKPE YCVRNWWVLGLTDFKNEAAD PHNSGGQLASPSGSRGTGAAGV VPASPAPCARTPQPLGGRWDW APAGTGGGIRRGSGCTGTHGG GGRLRHGGLQSGGLPRGKAAK ARREIESSAGYSNSSKCSII
23555	53923	A	23690	399	592	KCIHFPGPTPKFVCGVIVVTAVP /TFGM*TVYV**LPFSILAQNVG *RDDCDPGWKLNLFYAKKKK
23556	53924	A	23691	3	268	DRV/RPLRKNFQRNDQTAFTV HENPLLCYRCWYPGKQEQQK IKPQRGGKNRAEKLETLKSRAP LLFQRNAVPHQQRNKAGWRM TLTS
23557	53925	A	23692	29	484	CSFFLVSMVFTFWHDFAAAGTS CSFFCLVLSFRSSFRAGLVVTKS LSICLSVKYFISSSLMKLSLAGY EIVG*KFFSLRMLNIGPHSLLAC RVSAERSAVSLMGFSLRVTRPF SLAALNIFSFISTLVNLTIMCLG VALLEKYLGCILCVS

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23558	53926	A	23693	182	2076	MQEWLRLTARKTELSRDSRSC GQLKTSLLISLLVESTQGRH*SF L/VWTQTHSGGDGWRVAKAW RPKYHDTQLGGEKEEPQGHHA SDCRWRAQPHCRTLSAAVVNV AGFTVTVELRCLTLMKMREKD HHLCDNDIVLFPPDTAFPLDCL LSCIHSTVHGLLRWNAIYQLAS RSESHPERSEGGTPDRNGHPAL SLASFNGAQQDRRTVQSLGEKP GLPEEMA AFMAGTEKEQNELG IEFFQLIIPASKRTHSENALFSHS GDDTECSRSGQSPPSYSRGPP RRTFILATQPLCSKEAQTSPHEQ PTRTEKNRGSHLYHKSPCDHAS PGMSVTMSGMQALPRQLTTL TFYPPAFRSIKIFRIMILKTEMLH THARSQEALLKDSSKTMHLSTL PSCVRKSNYHHRERKIKTKEAF PAKIHRSRNQGMKVEVAPLTIT SSDPLAEFLLPVTVTLCASLEV LAPEGGMLSPGDATMIPLNWK LTLPPGHSGLLPLSQQVKKRV PVLVGVIDLDYQDEIDYSSMK ERSSSPATEQSWMENDFDELRE EGFRRSNYSELREEIQTKGKEV ENFEKNLEECITRITNTEKCLKE LMELKTKVRELREECRLRSRC DQLEERVSA MEDEMNEMK
23559	53927	A	23694	933	1118	RVERRRLQTIKLRATGGNSNQ RQRS*KL*KKFRMYN*NNQY REV LKGADGAESQGSRTT
23560	53928	A	23695	2	250	WCHTKLDGLSLFGESVALEEA GGQTALWLMRFLSRKANYVD KITTREVGHR*LMSSRLHSR* WAASSVCSSCVLLPSSHS
23561	53929	A	23696	1017	1230	
23562	53930	B	23697	62	1069	
23563	53931	A	23698	216	582	ILVPTLFWLGEFLLRDPLL*W ASI*G*PD/AFSLAALNIFSFISTL/ RESNDYVSWSCSRGVSL*RSLL YFLNLNVGLPCQIGEVLLDNIL QSVFQLGSILPVTFGYTNQMQL WFFHFIHFIHH
23564	53932	A	23699	434	681	TLACLARLKGFSWIIISCRVFSNL VPFSLSLSGTPIRRRFLGT*SHI SWRLCSFLFILFSLNFPSPRISFV SSSITD TLSSS



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23565	53933	A	23700	290	1231	RSFRAIGEVSIGSRGWGGGYAAQ LQSPSRLPVLGGGKKGSRGV GQGSSRAEVLGSQRERSGTCC AEAAAAAAQLIAGTGSSLPYQG PGQNQTAIAPTCAPLSPCKAAA VIMGNIFGNLLKSLIGKKEMRL MVGLEDAAGKTTILYKLKLGIV TTIPTIGFNVETVEYKNISFTVW GCGVARDKMRPLA/WRHVFQNT QGFDILWSDSNDR/ERVNEA/R EELAMKNAGAETSLRDAVLPFL/ FGNKTDLRNAMNAAGUQDKL GLHSLRHRNWTYQATCATRG NGLYEGHLWLANSPVKEVES RTALTAKHPNRP
23566	53934	C	23701	164	208	
23567	53935	C	23702	1	381	
23568	53936	C	23703	43	276	
23569	53937	C	23704	1	462	
23570	53938	C	23705	38	121	
23571	53939	A	23706	77	202	QKNYTQRPLPLHGLELEVTCR CWSWQPLLEPLELR/RLSD
23572	53940	A	23707	123	209	
23573	53941	C	23708	1	411	
23574	53942	A	23709	1400	1809	SSNPLSRPPLPTPTVPCPLRLSL LRACCCCLFLPLRFFSCPLLCLF/ LCFFFSVCSPAHNFKMPKPQW SGIPTGPPPSGSCFKCQKSGHW A/RNACSPGFLLSHVPSVWDPT GNQTVQLAWQPLLEPLEL*P/R LSD
23575	53943	B	23710	76	358	
23576	53944	B	23711	1	606	
23577	53945	C	23712	272	388	
23578	53946	A	23713	1	259	PGVRGAQGGPSIPRQCEESAIGP KFAWISSFHWKQGMFNMEAP SSLFFVNMCAVKKQTTWGRPD RGFIWQPLPEPLEL*P/RLSD
23579	53947	A	23714	684	917	GDFGLRQWGLNIQSCHLQTGT P/LPLFLIEYPLFLSPA*L/PWPELP TLCCIGVVREGISVLCQFSKGM LPVFAHSV
23580	53948	A	23715	618	683	
23581	53949	A	23716	306	710	DRVSLTLPRLGVPQWPDPSLQ RPPGFKRFYCLSLPSS*DYRHEP LLPAYFFPYRIIGWSRL
23582	53950	A	23717	2	88	

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23583	53951	A	23718	972	1967	FPPGRGRGPRPAGCSRGRARA CPKPVVDHVVRPNAFMVWSR AQRKMAQENP/QMHNSEISKR LGAEWKLLTESEKRPFIDEAKR LRAMHMKHEPDYKYRPRKPK TLLKKDKFAFPVYGLGGVAD AEHPALKAGAGLHAGAGGLV PESLLANPEKAAAAAAAAAAR VFFPQSAAAAAAAAAAAGS PYSLLDLGSKMAEISSSSGLPV LNMPMNHINSLGKNLALNLFV YNDANSMLDLCYDGVGKGP CFCATQGYEDIFKAGYGSVVD YYNDGSDLTTPLEIATVPTFSN HPLMSQRPSTWRQNPPLAKRLP LTEDSDGDDH
23584	53952	A	23719	2	144	RPQRRP/LPPTGSPLKHPGGAS GAAGAPIGEPQHPGAVVSRA WSLCS
23585	53953	A	23720	219	897	PGRAGGTLGLGSRDGTREKQ VEETPHRLHARTDTPAGCCGS PIGAPAAPEAPPCEGEP/PRWVE GVKKASPLPAELIGWLNFPL ARPVRPPLSPGPPRRPPEGVCG SWPGRSEGERGKAKNTAESTPR QNLHRKYTIIVTHYQRNRKGQ NISFSLVCEFHPSLADWTTVTA LTWTSKDNLSLTTESWLREGN VHRGMDEYVRAQSFLIMTLE NSGGSVVSK

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23586	53954	A	23721	937	2730	TNPHCHDHYYHHHHHHCHHCH HHHHHCHHHHHHHHHHHCRDH HYHHHHHCHHCHHHHHHHCHH HHYHHHHHHCHDHHHYHHHH HCHDHHHYHHHHHCHDHHHYH HHHHHCHDHHHYHHHHCHDH YHHHHHCHDHHHYHHHHHCHD HHYHHHHHCHDHHHYHHHHH HHHHYHHHHHCHHCHHHHH/P HHHHHHHHCHHHHHYHHHHH HHHHYHHHHHCHHHHHYHHC HHHHYHHHHHCHHCHHHHHYH HHHHCHDHHHYHHHHCHHCHH HYHHHHHHYDHHHYHHHHHCH HCHHHHHHHVHHHHHHLCHH HYHHHHHHHHHHYHHHHHH HLHCHHHHHHHHHHHHHHHY HHHCHHCHYHHHHHHHHYHCH HHYHHHHHHYHRYHHYQHNNH YHPRHHYHHHHYHCHHHHDYH HPRHCHHHHHYHQHYYPIII TTTITTTITTTITVTITTTITNT TAPTTPVTAITTTTITTTITTT TPITTTITNTTTTVTTVITTTT TTTTPHYHHHHHHHPVTITTTT TATITTTTTSITTTTITVTIT TTTAATHHHYHPYHHYHHHH HHHHHTHSYHHHHHHHHHCF HYHHHHYHHH
23587	53955	A	23722	2348	2571	
23588	53956	A	23723	4919	5142	
23589	53957	A	23724	2	370	
23590	53958	A	23725	588	701	
23591	53959	A	23726	295	521	
23592	53960	A	23727	2837	3061	
23593	53961	A	23728	272	436	
23594	53962	A	23729	239	514	
23595	53963	A	23730	105	367	TGRPPELLHLRSLSPPL/CSSP/ TPPPQLPPPVSLASGYPLHLPL ARYPACLPPIRRARTEQRGGEQ PGVGASPLPIGRWPGTEAT
23596	53964	A	23731	999	1145	
23597	53965	A	23732	1084	1893	

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23598	53966	A	23733	1605	2296	HSIHSSVDHPENRIYRRKIEELS KRFTAIRKTKGDGNCFYRALAAI PYLESLLGKSREIFKFKERVLTQ PNDLLAAGFEEHKFRNFFNALR AGRAQFYSVVELVEKDGSVSSL LKVFNDPGASDHIVQFLR/LCF TSAFIRNRADFFRHFIDEEMDIK DFCTHEVEPMATECDHIQMTA LLQALSIALQVEYVDGWIPALT QHVFLAATPSVYMLYKTSQY NILYAADKH
23599	53967	A	23734	529	1830	AGYGDRTMLARKSIPEEYVLA RIAENLRKPRIRDRLPKARFIA KSGACNALAHKNIREQGRFLQDI FTTLVDLKWRTLVIFTMSFLC SWLLFAMWWLVAFAHGDIYA YMEKSGMEKSGLESTVVCVTNV RSFTSAFLFSIEVQVTIGFGGRM MTEECPLAITVLILQINVLITNA VMLGICFMKTAQAHRRAETLIF SRHAVIAVRNGKLCFMRVGD LRKSMIISASVRQIVVKKTTTPE GEVVPQHLDIPVDNPESNNIFL VAPLIICHVIDKRSPLYDISATDL ANQDLEVIVILEGVVETTGITTO ARTSYIAEEIQWGHFVSIVTTEE EGVYSVDYSKFGNTVKVAAPR CSARELDEKPLPSLFRPSQKSEL SHQNSLRKRNSHRRNNFHRRN NSIRRRNSSLMPVKVQFMTPTE GNQNTSES
23600	53968	A	23735	968	1243	
23601	53969	A	23736	541	1010	SVTSLCKVTSVCLTSAASCRH RRSVEEYLVSKLPM/WSRRRK AAALTESV/CIVFWLASWMMMS RWLHYPDWVTTHAQVLMNVV SVMQADCRMNLLIEFLRWLMR KIFHNILRHFSQLLNVPIRPF WILRPF
23602	53970	A	23737	766	1910	LLTARLTWVSARLMSYVLLMC *LFPRLLSCLTTPPHCSFSICFVI CSRTLILKGSSLMYVFCPLPNTAI GGSSRVDRCAATSRGSSRVDL TL*KYSLVGPSPVLVSSV**SDW PLKLLMTMMS

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23603	53971	A	23738	581	1434	KLPMGVAVVKLLHLHPKVIIVFW LASWMMSRWLHYDPDVVTHIAQ QVLMNVVSVMQADCRMNLEI FLRWLMRRASDICSHGD*EPL L/YAVFGKQNTYIRLEPFKINV EQITKHIEKLQCGGVVKQLSRR GNNQHIISSTYDINRADTQVRR VNNYDIIVMSNSFNGQSEHQV WIDRKAGECLLHEYEDLVPIRD TLRLFPGGRYLPRAKHVAPSEP DPEQDEQLRFCKRHLVGKQP RSPVERVWDHGPTRIVGLIISLG PRSHSYRRSDNQITGTVPLVSS
23604	53972	A	23739	515	774	LFPRLLSCLTTPPHCSFICFVIC SRTLILKGSSLMYVFCLPNTAIS GTTVPLVSSV*LLVWDHGPTRI VGLIIRLGPRSHSYRRS
23605	53973	A	23740	322	763	CRMC*LFPRLLSCLTTPPHCSFSI CFVICSRRTLILKGSSLMYVFCLP NTAIVMALSPRGWRSKFGMPV EDTSLSTPAAPMVDSLIARVGV MARGNAITLPCVGRDVKSTLE VLRGDSVEKTSRVVWSGNERDQ ELLTEDALDDL
23606	53974	A	23741	1	127	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEK*RRL SPLHSLMMIARKRGK*PGAGE
23607	53975	A	23742	9	437	WLGLGNWKERLGTQTRMIWS QKTARRLCRTFGIPAYSMCI/CI GMAERMWCDNRNRERTVSSG GNRLPNPDWAPGPPRIVGLNIS LGPTVPTRIVGLIISLGPRSHSYR RSDNQGTGTTVTRIVGLILVLGP WSHSYRRSDY
23608	53976	A	23743	766	767	LUTARLTWVSARLMSYVLLMC *LFPRLLSCLTTPPHCSFICFVI CSRTLILKGSSLMYVFCLPNTAI GGSSRVDRCAATSRGSSRVDL TL*KYSLVGPSVPLVSSV**SDW PLKLLMTMMS
23609	53977	A	23744	573	1085	VCHQILTHLPALLSGARMWWD QLWRGRP*RRCCQPCCGG*WH CFWATAHHSPLDSTLNHLHCLP RGP
23610	53978	A	23745	2	379	WLTRSSCSWRLPPRRKKKGAL V*PVWLPGGVAVLLQLGCCV LQDVSCKRLCYNRKQSEIVL MS*ITMWKLFPRPPLPFSTCIC *KTCGKGRSK*KVDILVLSIRF SAIKLEPLDCHENAWL

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23611	53979	A	23746	575	576	TGIDSDQLNGRDWRRALSVSPA PDSGFPRCNGDEQAGI*LLGTG WAEKCHRLAFPPAGSTAGR
23612	53980	A	23747	1	723	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPMERIGRVEQRVGYTIEQI NHMRDVFGRRLRAEDVFPPVI GVAAHKGGVYKTSVSVHLAQ DLALKGLRVCSWKEPPGNSL NVSRMVWDHDPTRVVGIIIGL GPRSHLYCRSDYQQRSTVSCG CMPAVDCCCVLLIHNILRTVM WTKYLVTOAVPAR*PGCIRCKC
23613	53981	A	23748	1	1101	
23614	53982	A	23749	5	205	YCSSLSTFAAITSRAFLPDRRITT PPATSPSPFSSAMPRRISGPWTF ATRRR*TGTFPSLAFKTM
23615	53983	A	23750	1	761	
23616	53984	B	23751	56	2188	
23617	53985	A	23752	627	1272	
23618	53986	A	23753	448	2218	VRRQRSDPERSDARMVRFCLN YI*RKNPFILH*LFR*TLRQTKPD NSAGKCVKI
23619	53987	A	23754	171	959	AASRGPDAPGLEMAGNCSWEA HPGNRNKMCPLSEAPELYRR GFLTIEQIAMLPPAVMNYIFLL LCLCGLVGNGLVLWFFGFSIKR NPFSIYFLHLASADVGYLFSKA LFSILNTGGFMGTADYIRSVCR VLGLCMLLTGVLLMPAGWDE RGVRSEAWCTVETGRVHRSR VRVSRNTARDPANGLGHLQSS LGMPALEPGPTLGSALRWEFLQ TASPQLPVQPLHPAAA TPQPSL RGRGRGPKARALGLGPRSTSYR
23620	53988	A	23755	664	838	
23621	53989	A	23756	2732	3007	
23622	53990	A	23757	1522	1706	CHYFACMWSGCEVYS*SAPG** C*EDLSGLVRCRCLHNSAETPI* FAANADTSPRGFLCR
23623	53991	A	23758	537	795	ADCLPHMGRPCLD*GPCRTE*P RCAVVCLLWIAAVSCLSTT/SLR TG/DGPKYLVTOAVPARYPGCI RCKCVAVDELASSDMRLPCS
23624	53992	A	23759	2074	2276	
23625	53993	A	23760	36	206	ECWIWCELGAELHHQP*ASSH WKSSYRQSSSLPRCRASQRTLH LLQGWAVLGPLE
23626	53994	A	23761	444	725	
23627	53995	B	23762	1	1212	

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23628	53996	A	23763	11	972	RFSKSLDSGVQLASPSGSRGTG ATGGAHSPARAPALHSPWAV DGTRGRLAGTAGLWSPRAFHF FKVLSLSPFSCVSPFPGLGPS PRKHQMADDAGAGVGGRRPR GPRMG/NRGGFRRGFGSGIRHQ GCGCGQGQGGQGRGVGGKAE YKEWMTVTKLGHVLKDIKIS LEEIVLFSFFKTSLSLKDEVLKI MLVQKQTHTSQCTRFKAFVAT GDYNGHISLGKCSKEVATAIC GAILAKLSIVPACRGYWGNIKIS KPHITPCKVAGCCGSLVCLIS VPRGTGIVLAPCEGDRGLRKSS PASLSPECKDGGSHRSF
23629	53997	A	23764	2	260	LLEECRSLRSRCDQLEERVSA EDEMNEK*EGKFREKRISPKR APERSAKHGKEQPVAAAKSC QNVNTIETRKKLHLQTSKITS
23630	53998	A	23765	3	1150	
23631	53999	A	23766	1	1521	
23632	54000	A	23767	1	753	
23633	54001	A	23768	1	3351	
23634	54002	A	23769	1	1740	
23635	54003	A	23770	1	1353	
23636	54004	A	23771	1	1932	
23637	54005	A	23772	1	1221	
23638	54006	A	23773	1	1214	MAKKQNRKTGNSKKQRASPPP KECSSSPATEENWTENDFDEL EEGFRQSNYSELWEDIQTKGKE VENFEKTL EECITRITNTEKCLK ELMELKTKAQELRKECRSLRSR CDQQQERASVLEVLVAR/QL GRKRK*RVFN*EKRSNCPCLO TT*LYI*KTPLSQPKISLS**ATS AKSQDTKSMYKNHKHSYPTTT DKQRAKS*VNSHSQLLQRE*NT *ESNLQES*NWISSLHLIQSISQD GLKT*TLDLKPSKP*KKT*ALPF RT*A WARTSCLKHQKQWQQR KLTNWI*LN*RASA/PAKESTV/S SEQATYNMGENFHNLLI*QRAN IQNLQ*QTNLQEKKNQPHQKV GEGHQQTLLKRRHLCSQKTHE KMSIITGHQRNANQNHNIPSH TSYNGNH

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 9,540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=-possible nucleotide deletion, \=possible nucleotide insertion)
23639	54007	A	23774	1157	2085	QGRPTDFADFGTTIKQDFRLIG QTSVDRLLQLSQGQAVKGNQL LPVSLVKRKTLPNTQTASPR ALADSLIAAGTTGFTGKRAVS ATQLMTQFSPAREQSWRN/DF DELRKE/GFARSNYSKCLKEL MELKTKARELREECRLSRCD QLEERVAMEDEMNMKREG KFREKRIKRNESLQEIWDYVK RPNRLIGVPESDAENGTKLEN TLQDIHQENFNLARQANVQIQE IQRTSQRYSSRRATPRHIVRFT KVEMKENMLRAAREKGWVTL KGKPIRLTADLVAETLQARRE WGPIFEFP
23640	54008	A	23775	1	1707	
23641	54009	A	23776	1	1899	
23642	54010	A	23777	1	2781	
23643	54011	A	23778	1	831	
23644	54012	A	23779	1	3264	
23645	54013	A	23780	1	882	
23646	54014	A	23781	1	1853	
23647	54015	A	23782	1	550	
23648	54016	A	23783	1	831	
23649	54017	B	23784	64	3436	
23650	54018	A	23785	1	1422	
23651	54019	A	23786	1	773	MGKKQSRKTGNSKKQSATPPP KERSSSPATEQSWTENDFDEL EEGFRRSNYSLEQETQTKGRE VENFEKNLDECITRTNTEKCL KELMELKAKAWELREECRLSR SRCNQLEERVSVMEDEMNMK REGKFREKRIKRNESQPVIRD YVKRPNRLIGVPESDGKNGTK LENTLQDIHQENFNLARQANI QIQEIPRTS/QRYSSSEHSIIGLIGR FPS*RTDMFRAPKKREQKRNRR KIQKEEGGRTAPTGI
23652	54020	A	23787	1	2775	
23653	54021	A	23788	1	2712	
23654	54022	A	23789	1	1590	
23655	54023	A	23790	1	547	MGKKQNRKTGNSKKQSASPPP KECSSSPATEQSWTENDFDEL EEGFRRSNYSLEREDIQTGKGE VENFEKNLEECITRTNTEKCLK ELMELKTKARELREECRLSSR CNQLEERVAMEDEMNMKE D/GNRYDDRRQ/RKEEIMKSW RFCCRHLIRVVRGWGPSKYLWI TMVVTLAGNPQ
23656	54024	A	23791	1	710	



SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
23657	54025	A	23792	1	895	
23658	54026	A	23793	1	1938	
23659	54027	A	23794	1	1413	
23660	54028	A	23795	985	1219	LCSGVSVERCTESYLHSSHCLVQ QAGVTGDEGGSCY*DPPSHHRS HPRKLLKLC EQEFSVTSAPWRK CRSLHGRFPGLP
23661	54029	A	23796	1	3570	
23662	54030	A	23797	1	634	
23663	54031	A	23798	1	4551	
23664	54032	A	23799	1	4721	MHPSQRTPYQSRSPATIFATVST FKSHKSNLETKHPQQVPLSSLG LAANISSEIESEAEDNGKWES VDRTSFFPALTSFQQSMHKKI MTVFKSV EPEDGLGRPTLAFHE DRCQLSIQNSLDAGGGCPSMA APPAEVHELASGLISAAAALLSP AASGRVSKHQHIPTGFPDPPKA LHKGKLTTRKDIYTENPSVHHH HQRPKVDKTTKMGKKQNRKT GNSKTQSASPPPKC SSSPATEQ SWMENDFDELREE

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 59/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
23665	54033	A	23800	I	2152	MDILGWASRAHKWKGRATGT HVFNLMEYLIISLQCCASEQAA SPEHGASFRVWKSGLGFQKLILS LICPQCLQSLTRETWMRFKSKK TKGPDRLRLVMDANKWEFRRH ALRPALTFPNEGDDLVEALPV ALPPEAHVGGVVLPAALVRGA HGEQLPAIPGPEEFALPAVQAR AARPERQVVVIVVNEAGVDP GVEGLAPVPVLPVGRLEATAPK QPPRLPARLRAPLPSGRKLNAK CPRLRWGFFVQDGDGTCLACL SEGDDGCCQEAPLDHRPRLRG LAGSAGAREAREPRLRPGDWG NRIARVRAPEEAAAALSRPARV AAALAKTHRREHRARSQKLV SSVQQKLTTRKDIYTENPSVH HHHQRPKVDKTTKMGKKQNR KTGNSKKQSAFPPPKCASSPA MEQWTWDNDFDELREEGFRGS NYSELREDIQTGKEVENFEKD LEECITRITNTEKCLKERMELKT KARELREECRLRSRCDQLEER VSAMEDEMNMKREGFKREK RIKRNEQSLQEIWDYVKRPNLR LIGVPESDVENGKLENTLQDII QENFPNLARQANVQIEIERMP QRYSSRRATPRHIIVRFTKVEM KEKMLRAAREKGRVTLKGGPI RLTAVLSAETLQARREWGPIN ILKEKNFQPRISYPAKLSFISEGE IKYFIEKQMLRDFVTTTRPALKE
23666	54034	A	23801	I	2109	

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23667	54035	A	23802	1	2544	MSVHSWKPSWIRPIRSLSPKRPL GTQGTSEVPPDTHICQTKFHLSL SGPLLLSVHPVGKLSAVVGRVF IHILSQRERRRRVISAFPSEVPG SSHQGVPDSGCRSVGAHPVREP KQGEALPHSGSPREGKLTNRKD IHTKNPSVHHHHQRPKVDKTT KIGKKQNRKTGNSKTQASPPP KECSSPATEQSWMENDFDEL EEGFRQSNYSELRKDIQTKGKE VENFEKNLEECKTRITNTEKCL KELMELKTKARELCEECRSLRS RCNQLEERVSVMEDEMNMK REGKFREKIRIKRNEQSLQEIWD YVKRPNRLIGVPESDVENGTK LENTLQDIIQENFPNLARQANV QIQEIQRTPQRYSSRRATPRHIIV RFTKVEMKEKMLRAAREKDRS TRQKVNKDTQELNSALHQADL IDIYRTLHPKSTEYTFFSAPHHT YSKIDHIVGSKALLSKCKRTEII TNYLSDIISAIKLELRINKLTQSR STTWKLNLLNLDYVWHNEM KAEIKMFFETNENKDDTTYQNL WDALKAVCRGKFIALNAHKGK QERSEIDTLTSQLELEKQEQT HSKASRRQEITKIRAELEKETQ KTLQKINESRSWFFERINKIDRP LARLIKKKREKNQIDTIKNDKG DITTDPTIEIQTIREYYKHYAN KLENLEEMDTFLDYTLPRNLQ EEVESLNRPIGTGSEIVAINSLPT

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23668	54036	A	23803	1	1886	MKENFKHRHVAVFISSQEAQE DSREEDRLERSRFYFLFLELSY KTTGLNREPTVSLNSKSGTPMD QNEHSHWGPAAKGQACASSEL RIILVGKTGTGKSAAGNSILRKQ AFESKLGSQLTKTKCSKQGSW GNREIVIIDTPDMFSWKDHCEA LYKEVQRCYLLSAPGPHVLLLV TQLGRYTSQDQQAQQRVKEIF GEDAMGHTIVLFTHKEDLNGG SLMDYMHDSNKAISKLVAA CGGRICAFNNRAEGSNQDDQV KELMDCIEDLLMEKNGDHYTN GLYSLIQRSKCGPVGSDERVKE FKQSLIKYMETQRSYTALAEAN CLKGALIKTQLPKVDKTTKIGK KQSRKTGNSKKQSTSPPKERS SSPAMEQSWTENDFDELREEGF RRSHYSELPEDIQTEGREVENFE KSLEECITRITHTEKCLKELMEL KTKARELREECRLRSQCQDQLE ERVSAEMEDEMNMKREGKFKE KRIKRNEQSLQEIWDYVKRPN LRLIGVPESDAENGTKLENTLQ DRIQENFPNLAQRANGFCRFRN HHQTGFSPAGANQRGLAATLS GPGGEGQSAVARLTGEKKNHP GAQYANRLSPRVGRFINRSWH DRFPDWKAGTGLKSAIFAW
23669	54037	A	23804	1	4134	
23670	54038	A	23805	1815	1849	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
23671	54039	A	23806	1	4016	MGKKQNRKTGNSIKTQSAFFP PKECSSSPATEQSWMENDFDKL REEGFRRSNYSERLADIQTGKG EVENFEKINLEECITRITNTEKC LKELMELKTGSRNYVVECR/S LRSRCDQLEERVSADEME MK*EGKFREKRIKRNQSLQE WQDYVKRPNLRPIGVSESDGEN GKLENTLQDIIPENFPNLRQA NVQIQEIQRTPQRYSSRRATPRH ILVRFTKVEMKEKMLRAAREK GQVTLKGKPIRLTADLSAETLQ ARREWGPINILKEKNFQPRISY PAKLSFISEGEIKYFIDKQMLRD FVTTTRPALKELLKESLNMERNN WTSKQIIQEDGYSEEGWLCRA VIYSHTLQAIMAIVKATGNLQT DFANPFHTDDARQQFAMSYTV VGQGALPEDLSRCHLQTEAVQ RHPESLGCPLDLLHGMPVSSCF GYPQDTSSTV
23672	54040	A	23807	2059	3153	
23673	54041	A	23808	6	188	
23674	54042	A	23809	3	1014	VACRPLPRRAQPATFIPRVAV KMALVASVRVPARVLLRAGAR LPGAAGFRTERAAGGGDGA/RP VFGSQRVLVEPDAGAGVAVMK FKNPPVNSLSLEFLTELVISLEK LENDKSRFDVILTSD/RPGVFSA GLDLTEMCGRSPAHYAWVLE RPVQELWRLRYQSQ/LVLSAI NGAICPAGGICLVALTCDYTILA AGNPRYICIGLNETQLGIIAPF WLKDNPWRTPIGHRAAESALQ LGLPLPPAEALQVGIVDQ/VVP VEEQVQSTALSAIAQWMAIPKP MAHKLTKAIMRKGGQPPAWS RKGYADVQNFVFSISKDSIQKS LQMYLERLKEEK

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23675	54043	A	23810	1	2665	MTTSIRQFTSSSIKSSGLGGG SSRTSCQLSGGLGAGSCRPGSA GGLGSLGSSSYSSCYSGSGG GYGSSSFEGVDGLLVGGEKAT MQNLNDRLASYLDKVRALEEA DTELVKIRDWYQRQAPGPAR DYSQYYRIIEELQNKPPPSDDL TLPSPLILATVDNANILLQNDN AHLAAADFRTKFETEALCLSV EADINGPCRVLDELTLARADPE MHLENLKEELAYLKKHEEMN APRGQVGGEINVEGAAPGVD LSRILNEMREQYKMAEKNRK DAEDWFFSKTEELNREVA TNSE LVQSGKSEISELRCTMQALEIEL QSQLSMKASLEGNAETENRY CMQLSQIQLIGSVVEERLAQLL CEMEQQNQEYKILLDMKMRLE LEITTYHRLLEGEAQTVQHTP GSPCVPEWAHDCSLPAQLDE WSCQAQRGICGHRRENCWERIP SQSCFYRPTARSLTSLGTMST CSHQFTSSSRSMKSGCSIGGSIGG GSSRISSVLAGGSCHAPSTYGG ASCGLGGGYGGGFGSSSSFASG FGGGYGGGLGAGFGGGLGAGL GGGFAGGDGLLVGSEKVTMQH LGDRLASYLDKVRALEENAD LEVKIRDWYQRQRPSEIKDYSP YFKTIEDLRHKIIAATIENAQPIL QIDNARLAADDFRTNYEHELAL QQTVEAGVNGLCREMLALRGQ
23676	54044	A	23811	222	548	TLPCGDHHHSQDPARLPSWHD LLQERSEKCGSQDWQRDSVQP GVSYQFCCVPWPAGRSQPQRH CWGCCGTEASYDSGI*SLSTPG GGQLQGSV*GPDGAGLQNSHR
23677	54045	A	23812	2	165	
23678	54046	A	23813	1	665	
23679	54047	B	23814	1	1673	

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23680	54048	A	23815	1	331	ARQLRTSAMTMPVNGAHKDA DLWSSHDKMLAQPLKDSVVEV YNIKKESNRQVRGLEIASENF ASRAVLEALGSLNNKYSEGYP GQRYYYGGTEFIDELETLCKQRA LQAYKLDQCQWGVNVQPYSGS PANFAVYTALVEPHGRIMGLDL PDGGHLTHGFMTDKKKISATSI FFESMPYKVNPDGTGYINYDQLE ENARLFHPKLIAGTSCYSRNI.E YARLRKIADENGAYLMADMA HISGLVAAAGVVPSPFEHCHVVT TTTHKTLRGCRAGMIFYRKGV KSVDPKTKKEILYNLESLINSV FPGLQGPHNHAIAGVAVALK QAMTLEFKVYQHQQVVANCRA LSEALTELGKYKIVTGGG/CVISG GAGKPG*FSHQDGTGTSQDGG RRPFLHHTLSY
23681	54049	A	23816	3	1709	SHPTPRETPGTGVEGQATPSVLG AAPASQAKATPTLGRPHASDR GEVAQLDEWSCQAQRGICGHR RENCWERIPSQSCFYRPTARSLT SLLGTMTCSHQFTSSSRMKGS CSIGGSIGGSSRISSVLAGGSC HAPSTY/GGGGLCVSFSRFSFGGA CGLGGGYGGGFGSSTNFWS\GF GGGYGAGLGAGFGGGLGAGL GGGFAGGDGLLVGSEKVTMQH LGDRLASYLDKVRALLEANAD LEVKIRDWYQORQPSEIKDYSP YFKTIEDLRHKIIAATIENAQPIL QIDNARLAADDFRTKYEH.EI.A LRQTVEADVNGLRRLVDELTL ARTDLEMQIEGLKEELAYLRKN HEEEMLALRGQTGGDVNVEM DAAPGVDLRLNEMRDQYEQ MAEKNRRDAETWFLSKTEELN KEVASNSELVQSSRSSEVTELR VLQGLEIELQSLSMKASLENQ I\VEETKGRYCMQLSQIQLIGSV EE\QLAQLRCMEQSQSQEYQIL LDVKTRLEQKYCHPTAALLEG EDAHLSSQASGQSYSSREVFT SSSSSSSRQTRPILKEQSSSSFSQ
23682	54050	A	23817	2	365	

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23683	54051	A	23818	1	464	RRWRICSTWTRSFATAWLPPAP SANFPRTRDSQGRGAPAGFAL APILEFFLWDTSSQKFLQKPHCF MHGRERAKMGRRAQQESAQA ENHLNGKNSSLTLTGSETSAKL PRCR/QGGWAGDSVKASKFRR KASEIEIDFRLRPQSLNGSDYG GDIP
23684	54052	A	23819	384	805	
23685	54053	A	23820	3	392	MKYSAIQTL DGEIDLKLLTKVL APEHEVR*VQWWQFPGLSTL AIPINPAELPGLALCLP*RPWNG REKVSLLQREKALSLSYPAKPF LAEDDVGWWDHLEFTEVSSEV LTEWDPLQTEKEDPAGQARHT
23686	54054	A	23821	63	785	GPIRGWPGPGGGWGGATPPAP TSRLRLRAAGLAPRRRAKMGR RAQESAQAENHLNGKNSSLT LTGETSSAKLPRCRQGGWAGD SVKASKFRRKASEIEIDFRLRP QSLNGSDYGGDIPINPDLEEVQ EEDFVLQVLAAPSIQIKRVMT YRDL/DNDLMKYSAIQTL DGE D/IDLKLLTQK/VLAPEHEVRER NPSWQDDVGLGTWGPICSTEV SLRRSFTEWDPLQTEKEDPGG QARHT
23687	54055	A	23822	1	441	MSFNCSTRNCSSRPIGGRGIVPV AQVTTTSTTDADCLGGICLPSSF QTGSWLLDHCQETC/CGCQPLG GISSVCQPVGGISTVCQPVGGV STVCQACGVSRTYQQSCVSSC RRIPAKCVGASERIKTPRPASCF QDLPAACLSLNSSS
23688	54056	A	23823	1	538	PTRPLQQAATCSPLSDIMSFNCST RNCSSRPIGGRGIVPVAQVTTTS TTDADCLGGICLPSSFQTGSWL LDHCQETCCEPTACQPTCYRRT SCVSNPCQVTCRQTTCISNPCS TPTAGRSP/CVSSGSQPLGGISS VCQPVGGISTVCQPVGGVSTVC QPACGVSRTYQQSCVSSCRRTC



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23689	54057	A	23824	832	1885	AEWDAADKAHVGPGRSPRQPL PHVGRRAAHTTGRGRRTAGC APAPARTLCILSILGPWCVLPHL PTLCLGQAQAASCSQGAHGCF AGCSCT/GTSASHPV/CCKCPLH PVC TLADVHGCTSGFSVISLPQ TCAPWTSWRKWSLSDSWQVD ACPESCCEPPCCATSCCAPAPCL TLVCTPVSCVSSPCCQAACEPS CQSGCTSSCTPSCCQSSCQPA CCTSSPCCQACCVPCCKPVCC VPVCCPKPVCKPICCVPCVSGA SSSCCQSSRQFACCTTSCCRPS SSVSLLCRPVCRSTCCVPISCC APASTCQPSCCRASCVSLLCRP TCSRLSSACCGLSGGKSSC
23690	54058	A	23825	1	3097	MDEKRTRIQFEEADVPAYPKV ATVPQSEKKPSKYLCSADAAV STTPGSPPPPPPLPEPPVLKVL SLKPAAPSPATAATTAATASTA ASSTASSASKTASPLEHILQTLF GKKKSFDPSAREPPGSTAGLPQ EPKTTAEDGVAPPLDPIVQQF GQFSKDKALEEEEDRPYDPEE EYDPERAFDTQLVERGRRHEVE RAPEAAA AEREVEA YDPEDETI LEEAKVTVDLPLNRMCAVRR NSVERPAEPVA
23691	54059	A	23826	67	442	VKFFCLYLQSNKPMKNFKQG SNNQLLMRSFWLLCGIDYKKPP PPPAPGPESVAPALSGPPPAHS RGPRAVVRA/PPPPGPRHSPA PPPPGTPEPSVATYSIKASKRVS QQDRCHNLKMSQE
23692	54060	A	23827	3	657	GERSRRWGPACGPAEAKTTP CDAGAAGAAPGAPGHAGNPL GSGPDYD/GEATCMHLHPDDPC PAGAGCCPGSFEVAFDAAEK MKKSLHSLKKGCYSRVCDLPL DCPGCDSDSGRQAMFSCIVNFQ LPKEESPIPGSQEESGPSHSEC DSVGVDWRGQRVSRKQLQAPNH SLVLLVTSLFQETTKSHLNRTN DAVSPRKFKRLGALYWGKVEA
23693	54061	A	23828	141	246	
23694	54062	A	23829	1	609	
23695	54063	A	23830	1619	1752	

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23696	54064	A	23831	54	470	CSTMNPSEMQRAPRRQRHRS RAPSAHKMNRMMVMSEEQMKL PSTKKAEPPTWAQLKKLTLA KKKVLNTKVTQTPENMLLAAL KTVSTVSAGVPSSEEDHRER AMMTTVVLSKRRGKCGEKKEI SDCYCVYVERS
23697	54065	A	23832	213	572	IQWYPYQDITDFLHRIRKNFFKF HMEPKKSLHCQDNPKPKEQSW MHHTT*LQTMLQGYSNQKRMP PHLGSEERLCPAAPSGR*GAPLP GRCAIFQV*SDLSAGVPSSEE TATIENG
23698	54066	A	23833	296	583	
23699	54067	A	23834	2452	4557	
23700	54068	A	23835	3	266	
23701	54069	A	23836	31	499	ARVTAAVSAAAVAKRVWRDG FDCSGYYSLTILLVQPTKRP/E GRTYADYESVNECMEGVCKM YEEHLK\RMNPNNGPSI/THNTTS QLFDFDI\DLADLSCLVYRA\DT QTY\QPYN\KD\WKDEDPTVLLS SGKAQQAREIIVVGSWHGGWG GAWDTGV
23702	54070	A	23837	3	323	
23703	54071	A	23838	366	892	PCVYSQFPAGEQCLKLHSPA SPPALEASEAQTRKAPECGSGV PEVAGGSCPCLLCLPRHQAVP TQGPPTYSPCTSHQPHIFRPAA PHHLGLLQNPNAASCIQCLYP AGVATTMPRRKAEGDAEGD/K AKVKDEPQRRPAKLSAKPAPPN PEAKPKNAPGVTLSLRGATATRF

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23704	54072	A	23839	201	1412	LWKSRLTFKLAMSRVSPPPPA EMSSGPAESWCYTQIKVVKF SYMWDPSITLAFCREEMGEVI KSSTFFSGANDKLLWCLRVNP KG/LDEESKDYLVTFTCYLVSC PKSEVRANFKFSILNAKGEETK AMESQRAYRFVQKDWGFKK FIRDFLLDEANGL/LPDDKLT FCEVSVVQDSVNISSQNTMM VKVPECLADELRGLWENSIRF TDCCLCVAGHEFQAHKAILAA RSPVFSAMFEHEMESKKNPSL KSMDEVPEVFKE/MMCFIYTG KAPNLTKMA/NDLAAADKYA L/ERLKMCDALCSNPV/SVEN AAEIL/LADLH/SADQLKTQAV DFINYHA/GDVLETSGWKSMVL SHP/HNLVAEAYRSLASKQCPF LGPTQNALKQSLKILLCC
23705	54073	A	23840	1	575	FRHRKIY*NLKQEDSINVTEM TSIRASVDILIPDPKDDMDT DKQEKKEVPKCGFLPGNEKVL SLLAMVKPEVWTLKEKCIIVIT WQHLIPKIEDGNDGFAIQEK VLERVNAVTKVEAFQTTIS/K MDYRALVHERDEAAYGELRA MVLDLRAFYAELYHISSNLEKI VNPKGEEKPLMYPTRD
23706	54074	A	23841	1	1092	
23707	54075	A	23842	130	397	EGVHSQVNLFPKIGNQTHVPAS HGTDALPPTLQMDYRALVHE PD*AAYGELRAMVLDLRAFYA ELYHISSNLEKIVNPKGEEKPF
23708	54076	A	23843	20	334	VRLPGSTHAGGDRSSMAKPCG VRLSGEARIQVEVLRLNQLFQEA NEEFLYRFLPQKIYLNQLLQEDS LNVADLTSLRAPLDMPIPDP KDDMETDEQEKKEGK

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23709	54077	A	23844	1	898	MKQKVAAEAGRGQILQAKVLP SGTL SRLAEALFGVQTYDQDA YGF LTPSAQSMKVFCCLWKL V CKQLEGDVAQGLAIDGDVKKH SGLEWQVETIQNLVDSYMAIV NKNMQDLMPTIHLMINNTKE FIFSELLANLYSRGEQNTLMGE SAEQAQGRNEMRRMHVLR APSIIGDIKTIVSTPTGSPKSSPT TQCRLPAVPPAPRGLRSPAPGPL PAASTLGEAPVVPSTPGASPDPL GPPPVQPSRPSRGQPQDRMP GLAGDLTVGFLEPTLQAIIRWS LLLRPPANSPEQS
23710	54078	A	23845	99	429	FSDAAAVARQPSFGKALGAPQ ADTQPTSPMPRCPPGSETKPK KAAGKDKSSDKKNKTKKQMK AEKGGKEKQAEVADQETKDL AENGDTENKESPASDEATEKDT KSD
23711	54079	A	23846	1	390	TWMFIAAVFRIASTWKQPRYFS VGKQDQKRTSRKLQQTCSRGA *WLEGLTNRKE*HQYQRKGH PRKNTIQRSP LKTKANILNGQ KLEAFPLKTGTRQRCPLSPLFN MVLVLARSIRQEKEIKVFK
23712	54080	A	23847	522	733	ASAADTQANRVWSGPP/RKLQ QTCS*GS*LLQGKLTNRKDIHT KTPSVHHHHQRPKTLNQQRSK ETKKAIT
23713	54081	A	23848	46	330	
23714	54082	A	23849	1	873	MAEKKDPTKEPEKKHLLAWM NKLLEYLDPKYKNDNTDGS VVHKIIACDKVSPPPSAMIGSF PRPSSEADAGAMLCVQPARTKI LGILGLKATSLQYLRLHTGKPL LPKIDESTKMG RNQPKKAENSK NQNAASSPPKDHNSPVREQNR MQNEFDELTEVGFRDRSSKR NSVVIKALPRHLINQGRSQEWR LGIGARDSPKTSGRRGKSPAGP NRTTVPEDEQA/GSRPRPIPTRQ ADPRTPPPTRSEKE/AQLSLATD QMCPSLAPLIK*PQES**WKQRI SI*MEHL
23715	54083	A	23850	1075	1350	AJITANVFKFVSDIRGLVCNMEL EGSNCFIDVCSWTSEMKS GTS RR*KIT*GNSSGSLPRDTQRSGH RNSSLCCERSKYGGSRVDIRRK VF

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23716	54084	A	23851	1	956	MEVLARVFRQEKEMKGIHIGK EEHKLFLFADNMTLCLLEKTKDS VKKLVEQPSSFGSVDWLCLSSC SGSTHTPRPADVSPGSLPGPGQ TFGTREPPQAVSTKEASSNLH APERTVAGLFTTEQVRALEGV FRHHQYLGPLERNWLAREMQL SEVQIKTWQFQNRMRKHKRQM QDSQLNGPLSGSLHGPPAFHSP SSGLANGLQLLCPWAPLPGLS/L WLPGLGSFWLQMDQALASS WASCCGQPLAYHPPRPGSGAH KLGPALSTGPRGLCALPETGDA FEETPTTCLPHKRSVPQIASDAY PEDSAVLFTSWRHLS
23717	54085	A	23852	1	846	MEAFDANYTFQSGPSAAGLLV FAGGPLQALCAWVSAVEAAEQ WILQPSFGSVDWLCLSSCSGST HTPRPADVSPGSLPGPGQTFTGT REPPQAVSTKEASSNLHAPER TVAGLFTTEQVRALEGVFRHH QYLGPLERNWLAREMQLSEVQ IKTWQNRMRKHKRQMDSQ LNGPLMGSPGAPWLSTHIFLA LAKGLQLLCPWA\PLPGSPGCP LGSFWGTP/QMDQALASSWA GCCGQPLAYHPPRPGSGIDLPK GTQLSLRLFQDISSTRGDHRS
23718	54086	A	23853	3	239	
23719	54087	A	23854	10	1154	RRAGFGGVRASGAMGTTPGLQ TDCEALLSRFQETDSVRFEFT ELWRNMKFGTIFCGMRN\LEK NMFTKEALALAWRYFLPPYTF QIRVGALYLLYGLYNTQLCQPK QKIRVALKDWDEVLFQQDLV NAQHFDAAAYIFRKLRLDRAHFH TAMPKLLSYRMKKKIHRAEVT EEFKDPSDRVMKLITSDVLEEM LNVHDHYQNMKHVISVDKSKP DKALSLIKDDFFDNKNIVLEHQ QWHKDRKNPSLKSXTNDGEEK MEGNSQETERCERAESEKIKS KA\FSVVIQASKSRHRHQVKLD SSPLDSASGGQVKATRKKEK KERLKPAGRKMSLRNKGNVQN IHKEDKPLSI.SMPVITEEENES LSGTEFTASKRRQH

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, / =possible nucleotide deletion, v=possible nucleotide insertion)
23720	54088	A	23855	16	447	VNCDKANCSTTCFNGGTCFYF GKICPPGLEGEQCEISKCPQPC RNGGKICIGKSKSVCEPGCGAH GTCHPEPNKCQCQEGWHGRHCN KRYEASLIHALRPAGAQLRQH TPSLKKAERGDPPESNYIWVE LPTSGNVLSYTKFI
23721	54089	B	23856	103	1989	
23722	54090	A	23857	3	1295	SGRGVSRHMADYLISGGTGYV PEDGLTAQQLFTGAAARDRLT YNNFLILPGFIDFIADKVDLTSA LTWKITLKMPLISSPMDAVTEA DMAIAMALMGGIGFIHHCTPE FQANEVRKVKKFERGFIMDPV VLSPSHTVG/DVLEGMKMRHGF G/NPITETGTMGSKLDSHKQLLC GAAVGTREDDKYRLDLLTQVG VDVIVLDSLQGNLSYQMAMVY YIKQKYPHLQVIGGNMVTAAQ AKNLIDAGVEGLHVGMGCSIC ITQEVMAYSWPQGTAVYKVAE YARHFDHGEHGKALALGASTV MMGSLLAATTEVPSPKYFFSDG VWLKKYRGMGSLDALEKSSGS QKQYFMEGDKLKIAQGVSSSIQ DKGSIQKFVSYLIAIGIQHGCQD TGVCNLSVLLSMMYSGERKFE KWTMLAQIKGGVQGLHSYKK
23723	54091	A	23858	770	1008	LAPSPCVRSKGRKESPDSSR/RPL WLRPIAPALGPSRRGLAPDSR LNPHRSLLGTGNVDVNVIMAA LQGLGLAAVWDRRR

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23724	54092	A	23859	1	1489	MTRWSSYLLGWTTFLLYSYESS GGMHEECVFPFTYKGSVYFTCT HIHLSLPWCATRAVYNGQWKY CQSEDYPRCIFPIYRGKAYNSC ISQGSFLGSLWCSVTSVFDEKQ QWKFCETNEYGGNSLRKPCIFP SIYRNNVVSDCMEDESINKLWC PTTENMDKDGKWSFCADTSNL GMGVGPTPRHHRRASTRHSRPP PADPDGGERPRTADDRQDDA TEDDGTGRGRQTRTQATNAN ANHKKSNRTKPPRHKPNKAK RHTKKETPQNT/CGTDKNPDS GRPKLFRACITSTGTGRELWT RSREHPAK/QGRRSGKQRLRPW DRMLSPDWHRAQRIAQVWKPE QEDGLSIGFGDQPGPHSDTSSR QQVRRSKATEMHVGGRVDFD DFVELMTPKLLAETAGMIGVQ EMRDAFKEFDTNGDGEITLVEL QQAMQRLGERLTPREISEVVR EADVNGDGTVDGEGDIDGAWG RHGTQGPWWPGLGDVVRGEPL
23725	54093	A	23860	283	490	GDIWMGTQPKPYHS/PPGPSPN/ PCPPHFNQSMPSPKSPKVFNS FPALTQKVHTSKVSSETRQVPS HL
23726	54094	C	23861	82	222	
23727	54095	A	23862	27	454	VDGRIAGEITRRGSRARPRPGPQ CPPGRPGTAMIKAILIFNNHGK RLSKFYQPYSEDTOQQIIRETFH LVSKRDENVCNFLEGG/LVFVE TLDKCFENVCELDLIFHVDKVH NILAEMVMGMVLETNMNEIV TQIDAQNK
23728	54096	A	23863	1	403	RGRSARPRPGPQCPCPPRGPTAM IKAILIFNNHIGKPRLSKFYQPY EDTQQQIFRETF/HLGSKKEEG WNFLKGGLLIGGSDNKLDYRH YATVYFVFGGDFSKRELGLN LIQEFGEPLDKCFEKVWELDLIF
23729	54097	A	23864	215	599	

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23730	54098	A	23865	2	683	GRIAGEITRRGSRARPRGPQCP PGRPGTAMIKAILFNNHGPRL SKFYQPYSEDQQQIREFHLV SKRDENVCFLEGGLIGGSDN KLIYRHYATLYFVFCVDSSE ELGILDLIQVFVETLTKCFGNV CELADLIFHVADKVHNLAAEMV MGGMVLETNMNEIVTPIDAQN KLEKSEAGLAGAPA'RA'VSAV KNMNLPEIPRNINIGDISIKVVP
23731	54099	B	23866	94	726	
23732	54100	B	23867	94	1146	
23733	54101	B	23868	1	360	
23734	54102	B	23869	1	1371	
23735	54103	B	23870	1	639	
23736	54104	B	23871	280	2391	
23737	54105	A	23872	3	244	
23738	54106	B	23873	103	285	
23739	54107	A	23874	70	378	MPLRILLMHGEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEILQIKTK HYTTKEQEKEEQGIKLVQGSNN D/QEQEKKGEYKNTGEKNSMK
23740	54108	A	23875	5	156	RKKGGG/EEEEEGEEEEEEEE EEEEEEEEEEEEEEEEEEVVL LTPGTGAEDFKKH



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23741	54109	A	23876	1	1808	MEVLSIDNLAGHKVFYQKESH WKQKQKDLMSGKRLSAAANPLP ALLLPVLWTTGQAPSPGGDP ILQLWDDAQMQAGSPRTKKKG CTRNQQAARLSFQSRGGQGS LTKMIFEQRFGGGKGESKDAIA IIVVDIVTLQPCRTVEWVPTRPF RSLQGHFQGGRLRRQMMVMVE GVVWVLSAMDLTSPRDCLPFC VSLPVLLLSAPLCSCTAGGSPV TSPHHFPVEGGLGRVRRCYNE PVVTTLGWESVCWVSFWLLLR IRYSTGQAACHAESQELNPRG FGCLGHRNVTWVKCLLPALQP EGSVPFLELLEPFIFASASKTFV AANLVTWVACFLLVQAQFQSL EYRQGVGIPVADRTGDAPTLGL SYEADVAEGHGFLLDQESVIQII PEPLPQFYLCLLDAELTGVQGE PALPSMQIFSSPEAATGVHNDR GAEHFPVSRQPSAELGLRPMQA SQERKINFPGPSGFPKRNKT LSRREKKEEEKKEEEEEEE/E GEEEEKEEEEEKEEEEEEE GEEEEEEEEEEEEEEEEEE KWLYQYDPEDKAQSKQWLSR GGSGPVKAKADWWRAKEIHSL QPRQVIPGIPSM
23742	54110	A	23877	459	636	IPGGSNGLEAEGPPPPPLPVA AVLA/AGSGGLAVASCAFTICALR WPGVPCSRVPIWTPS
23743	54111	C	23878	183	254	
23744	54112	A	23879	103	335	LGSGDLPWEINPLSSCSLLHEK DPPTTSGPQTDPRKEHLNFKSG ACYTCRKSGH*AKECLQPGPIK PHLICVGP
23745	54113	A	23880	159	306	LGSGNLP*EINPLSSCSLFREEDP PTTSGPQTNQPKHLTNFKSAA ED
23746	54114	C	23881	80	106	
23747	54115	A	23882	317	427	
23748	54116	A	23883	353	511	
23749	54117	B	23884	1	320	
23750	54118	A	23885	1	624	
23751	54119	A	23886	224	355	
23752	54120	A	23887	872	1003	
23753	54121	A	23888	1	603	
23754	54122	A	23889	2	214	
23755	54123	A	23890	459	601	DVDRHVRGSNFHHNEIRSLAAT PRAPGTLAQGLTDSFPDLLGLA AED

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23756	54124	A	23891	2	267	QWDGWWGARKGMEWEDDLPLE FGRPTASLLSDRPQPNSSRGSDV PFLAPSLPCHSSACLAATPRAPG TLAQGSLTDSFPDLLGLAAED
23757	54125	A	23892	72	299	
23758	54126	B	23893	1	1470	
23759	54127	A	23894	134	1276	
23760	54128	A	23895	2	847	PPPPRVLRITGGGASLTAQAPGT PRRPQGEPEVTPGRSLGLRSSCQ ASVSLLLPVIVACASLEPGRGR AFRDEGAWNTRVSAAVISSQA QLLSSILVNSRRLSFSAHHTAFG TVVALGEYAFRMRFLSARLFGVE VTRPTNS/RLSMKVVKLFSE/IW PLAKKKETYDWYPNHHTY/AL ELMAGRLRFLGTLTEDEAFRDF MGMEAKTDLKEAFVKGKGNP KEREKGKRAAKKGNSCLVPSR RGDFLSSVAERRKLHLLSFPHIG GDVIFLNGSLFGRNTSHLLGEI
23761	54129	A	23898	3	1224	MRRNKPRQRGVREARPAGGAG PGWRGARCAGGEGGGGERRG SPPAALALAPASGPRRNFPDA RCLIQQIHQGAFLLAGSASLS AVTGVPGEARFTEDYCPEEK MFGFHKPKMYRSIEGVCISGA KSSSSRFTDSKRYEK/DFQ/SCFG LHETRSGDIGNACVLLVKRWK KLPAAGSKKWNHVVVDARAGP SLKTTTFEPKIKVKTLSGNRIK/S TQISKLQKEFKRSNSDAHSTTS SASPAQSPCYNSQSDGSDTEM ASGSNRTVPVFSFLDLTYWKRQK ICCGIHYKGRFGEVLIDTHLFKP CCSNKKA-AAEKPEEGPEPLPIS TQEWTECPDLSLVVSWRPPLSS LPAGCSLHGLAADWTTDMITV TTSKCREPSCQQEGSFQRRKAF PKRLPKMAEVQVLVL
23762	54130	A	23900	69	355	
23763	54131	A	23901	316	830	VLSQTLHPMTLQLSRYSRGW GLSSDRPRGAKAKVPSCFGTAP R/GPEAAPRLLAHHLVPAGRG/S ARAPAPGWRLGSPGAGRKGR DFRLPASGLAVSGEWDPIPWGY VGEVGGCSCQWFSFGVQKRR RRKVWLGQPDLPGPSALADK GPALAKADGQRVNVASVGLQP

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23764	54132	A	23902	1	1044	MSYKVTQEISKELRWISAVLVT WDLRGETGTRVCIAMGVSRMQ YSIMAKIVGSGNNLELNPAADK LDNLGAQCGLASVKVSARAAP PFAPATLVALLEARAELPLPPP PGVSLRCVEAPDVRGRGRGGG EGSGVTRLLLPPLPPSGASFLQR GRPVTPALFQAGWGAAADRP PADLAGGAGGRSGGRRMLPRS PGAALDRSALEDGIVEGYGPL GEPEEGSRSSFLESKVAFNYCN KVAFDLDFGNEAVEQCHTMSDR KAVIKNADMSQDQDAVDC ATQAMEKYNIEKDIAAYIKKEF DKKYNPTWHCIVGRNFGSYV PHTEDEKHFIYFYLQGVAILLFLK
23765	54133	A	23903	33	427	
23766	54134	A	23904	72	777	EWKQAGEGGGQRRGSPPAVL ALAPASCPREMSYLPNTNPPGSI LICWLGVSLSHRSAGGSAIY GSIYYPEEKMFVFKPKMYRSI EGYCICRAKSSSRFTDSKRYEK DFQSCFGLHETRSGLCNACVL LVKRWKKLPAGSKKKTGIMCN QSDDGSDTEMASGSNRTVPVFSF LDLTYWKRQKICCGINYGKRF GEVLIDTHPFKPCCSNKKAAAE KPEEQGPELPISTQEW
23767	54135	A	23905	234	989	PKTSDQAYYCPEEKMFGFHKP KMYRSIEGCISGAKSSSRFT DSKRYEKDFQSCFGLHETRS GLCNACVLLVKRWKKLPAGSK KINWNHVVDARAGPSLKTTLK PKKVKTLSGNRJKSTQISKLQK /ENFKR/HNSDAHSTHPQVPSP AQSPFTVNQFRWTGSDTGVG FPGSNRNHPVFSFLDLTYWKR QKICCGINYGKRFGEVLIDTHLF KPCCSNKKAAAEKPEEQGPEP LPISTQEWVTEVFM
23768	54136	A	23906	3	1059	

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23769	54137	A	23907	1	1697	MRPCALCWRSAVTAAPERAVL ESRGGAPDTPRRLHSFTQTRSL PQAAGPHTRLHPROGHAHMR GGGRVTDTRRHIPNADVPRYK LTCTGGVTTFVALYDYESTRET DLSFKKGERLQIVNNTKGDW WLAHSLSTGGTGYIPSNYVAPS DSIQAEWYFYGKITRRESERLLL NAENPRGTFLVRESETTKGAYC LSVSDFDNAKGLNVKHYKIRK LDSGGFYITSRTQFNSLQQLVA YYMSHCPPFSAAGWYGGGCP EEPQKHADGLCHRLTTVCPTSK PQTQGLAKDAWEIPRESLRLEV KLGQGCFCGEVWMGTWNGTTR VAIKTLKPGTMSPEAFLEAQQV MKKLRHEKLVQYAVVSEEP YIVTEYMSKGLDLFLKGETGK YLRPLQLVDMAAQIASGMAYV ERMNYVHRDLRAANILVGENL VCKVADFGLARLIEDNEYTAR QGAKFPIKWTAPEAALYGRFTI KSDVWSFGILLTELTGKRVVPY PGMVNREVLDQVERGYRMPCP PECPESLHDLMCQCWRKEPEER PTFEYLQAFLEDYFTSTEPQYQP
23770	54138	A	23908	1	736	MDPGAALQRRAGGGGGLGAG SPALSGGQRRRKQPPRPADFK LQVHIGSRGVGKTSMERFTDD TFCEACKSTVGVDFFKIKTVELR GKKIRLQIWDTAGQERFSSITSA YYRSAKGMLVYDITKKETFDD LPKWMKIDKYA/SEDA DLLL VGNKLDCE/TDREITRQQGEKFA QQITGMRFCESAKDNFNVDIEI FLKLVDDILKKMPLDILRNELS NSILSLQPEPEIPPELPPRPPIHVR
23771	54139	B	23909	84	441	
23772	54140	A	23910	6	254	
23773	54141	A	23911	1	230	
23774	54142	A	23912	3	187	
23775	54143	A	23913	3	143	
23776	54144	A	23914	3	481	
23777	54145	A	23915	1	711	
23778	54146	A	23916	55	381	

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23779	54147	A	23917	240	875	GLSAESTPTSIMSMTLGWDIR GLAHAIRLLLEYTDSSYEKKY TMGDAPDYDRSQWLNKFKL GLADFPNLPYLDGAHKMHPEA TPFLCYIARKHNLLGETGRRE KISSWDILNENQAMDVSQNLAR VCYSPDFEKLKPEYLEELPTMM QHFSQFLGKRPFVFGDKITFVD FLAYDVLDLHRIFENCLDAFP NLKDFISRFVSCGIM
23780	54148	A	23918	64	774	CLSAESAPTSTMPMTLGWDIR GLAHAIRLLLEYTDSSYEKKY TMGDAPDYDRSQWLNKFKL GLADFPNLPYLDGAHKITQNSA ILRYIARKHNLCGGDRRREKIS CWDILENQVMNHNMEVLRLC YDPDFEKLKPKYLEELPEKLKL YSEFLGKRPCFLGDKITFVDFL VYVDVLETKQVFEPKCLDAFIQ NLKDFISRFEGLEKISAYMKSS RFLQELVFSKMAVWGNK
23781	54149	A	23919	163	317	LSPNNYYRKLQPKVKLE*RYHR LALFSFPTKLTPKVSLLCCFL EMGYIF
23782	54150	A	23920	62	255	VRLTAQKSLGPLTSTHSLWGS ARARHREPVGSVCGCDPCEQL LLVSQLRAPGVDSAAAGRPV
23783	54151	A	23921	173	467	KSRFCFFGVVLKPKKLHIR*WI GATL*NQP*TIFQTDGDCSHQSL GPLPACDLWDQLHLRSKGGGS VCGCDPCEQLLLVSQLRAPGV DSAAAGRPV
23784	54152	A	23922	35	548	PRSCPSLSPGLSCLLQ/RLVNYQI SIKCSNQFKLEVCLLNAENKVV DNQAGTQGQLPAVVGQARWGS GCRGAHTWPLAVIGAADCTG QRGWEGV*AFPGLTEPVSSLFC GQDGD/CSPHSM*VLSHVVLWL LNLGLCSLVLGSVCGCDPCEQL LLLVSQLRAPGVDSAAAGHPV
23785	54153	A	23923	1	599	MSPAGLVNYQISVKCSNQFKE VCLLNAENKVVDNQAGTQGQL KGRPDGAQAV/VGAHTWRFGC RRCC*LHRSHWGL*LLHTPCGR PHCARHREPVAHSLLCRAISGS EPHFQWQCSVQ*PQLCVPRVAT PLGELSDGDGDCSHQSLGPLPA CDLWDQLHLRSRQGGSVCGCD PCEQLLLLVSQLRAPGVDSAAA GRP
23786	54154	A	23924	290	528	

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23787	54155	A	23925	274	571	KSRFCFFGVVLKLPKKLHIR*WIGATL*NQP*TFQTDGDCSHQSLGPLACDLWDQLHLHSRQGGSVCGCDPCEQLLL\VSQQLQAPAI DSAAAGRPV
23788	54156	B	23926	204	410	
23789	54157	A	23927	29	330	YLGVELVKSAYPFFQIHLSPSCMWL CGLFLFYIDFL TLMCGDKPLICKKHQLSASTCA/CTIC*GAL TLLMEIEQGQCDLSCASREVSTARSLAELFSGP
23790	54158	A	23928	259	699	ETSHQVMDRSNPVKPALDYFLNRLVNYQISVKCSNQKLEVCLLNAENKVVDNQAGTQQGLKV LGANLW WPYLMHEHPAYLYS WEDGDCSHQSLGPLACDLWDQLHLRSRQGGSVCGCDPCEQLLLVSQQLRAPGVDSAAAGHPV
23791	54159	A	23929	245	695	
23792	54160	A	23930	302	745	ETSHQVMDRSNPVKPALDYFSLNRLVNYQISVKCSNQKLEVCLLNAENKVVDNQAGTQQGLKV LGANLW WPYLMHEHPAYLYS WEDGDCFTPKALDPLACDLWDQLHLRSRQGGSVCGCDPCEQLLL\VSQQLRAPGVDSAAAGRPV
23793	54161	A	23931	2	293	VFCHTDLRKNLTVDDEGTMKVEVLPALTDNYMYLVIDDETKEA AIVDPVQPKVVDARKHGIVKLTTVLTHHHWDHAGGNEKL VKLESADLGIRLF
23794	54162	A	23932	1	441	
23795	54163	A	23933	1	630	
23796	54164	A	23934	3	265	
23797	54165	A	23935	3	1062	SAVQPGPVMVVGRCGRSRLAALGAACARRGLGPALLGVFCHTDLRKNLTVDDEGTMKVEVLPALTDNYMYLVIDDETKEAAIVDPVQPKVVDARKHGIVKLTTVLTHHHWDHAGGNEKL VKLESLK VYGGDDRIGAL THKITHLSTLQVGSNLNVKCLATPCHTSGHICYFVSKLGGSEPFV VFTGDTL FVAGCGEVL MKGLRDEMCKALLEVILGRLPDPVGSASLRAGRVYCGHEYTIKQTSKFARHIVETGNAVAIREKLPWA/KEKYSIGEP TVPSTLAE/EFTYNP/ FIKVREERCKQHVAGETDPVITMRPVRRKDKQFKM/PRDLRPPLHLQQDLGIKALLDRLF

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23798	54166	A	23936	107	750	SHLWSPVSEPLQACSFC/VIRDK YRYFACLMRARSEHTNEKDM MKAIRLLKEAEEEEFWYHQHPQ PCIFPDSPRGTSYVTHECYKVPE WCLDDWHPSEKAMYDPYFAK RKQWKLLRRESWKREVKQLQ EETPPAGKEECKLHEGMNYVV LTCIPGAIKQYLACRSYKTPGP RDSCEWVQSDNQCWVWLDG AHGLVTSFKGVMMTVEATTM AAVF
23799	54167	A	23937	3	718	PASTISCVTSRRRAVSRLSARP GKVSAMASLASGPVLTTHQK VLRLYKRALRHLESWCVRQDK YRYFACLMRARFEHKNQDM AKATQLLKEAEEEFWYRQHPQ PYIFPDSPWGHPYERYDCYK VPEWCLDDWHPSEKAMYPD YFAKREQWKKLRRESWEREV KQLAQEETPPGGSF*LEALPPGP KRKVLPLWVYIVTRPRERP MLERERPHLSCLQVKYVTEHG
23800	54168	A	23938	269	488	TDGVIFIGLSWSPRRCGLGIRD AERIFFALDQASCGFTIHPHIDA AETPRGLTMHLCRRCQRGQSQ AEKLP
23801	54169	A	23939	1	1560	MVHLGAPVMALNLQGGKHLCD STASSLLPRRRESNSDDTARED ARQKRPAINTDMRTQELQTRET GQGTARETEVATPLSGPSAGDS PPAAASEMSCGQLVLALLLFFL LVWNTGTGKSGSGRVARLAQLA HDCDGGALGLCYAVLDQRSV VQATPQAPKPGPVQPLTVQGL QPVHVAQESSGNEITARRQSAR SRPRGDRTPASRRVTRRPKHAP ERAPIQQGNIVTVRAPTARKKW RPAVGTPTGAHPVCTAKGTGG RPTPTQAHTRYTERDPIRNSAEL TGSRRPCTGRERSGVEACKAAV HNLLVAQTGSSGLIINYPLDDIQ DAIAVEAACTNPALFLDVSQ TPINSIIFSHEDDVWRTPLVAPT NLNTRSSQPARHHRAGAVRRH HMTVARSATAHARLRHAKPQ GRERIKPSGAREGSEPLGGESGI RTPRGRERDPNPSGAKAGSEPG RIPETLPRCKGETEAKCWARGN FHTAQGSWPRGGRSRWEPLA PALSQQAHHGGEPLPAAARSHR
23802	54170	B	23940	98	229	

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23803	54171	A	23941	1	256	
23804	54172	A	23942	289	433	VLWSCAAEDFDWL VYRPIGSA LSCLIGPWAIGMWETGFP*VL WSCAAEDFDWL VYRPIGSA LSCLIGPWAIGMWETGFP LLSV LS
23805	54173	A	23943	450	1260	LCACVVGGEKRSGRIGCAGA GKDPFWRAVGVAAQAAAVVA CGAASPYRNRAVSVSDHSQS RGPGLSLSGGTVCMDGKKT RTADSSSEDEEEYVVEKVLDR RVVKGQVEYLLKWKGFSEHN TWEPEKNLDCPELISEFMKKY KKMKEGGNNK VREKSESKR KSNFSDSAEDIKCKKKREQSD IARGFERGLEPEKIIGATDSCGD LMFLMKWKDTDEADLVLAKE ANVKCPQIVIAFYERLTWHAFA PEDAENKEKETAKS
23806	54174	A	23944	3	267	AMVGGGGVGGGLLENANPLIY QRSGERPVTAGEEDEQVPDSID AREIFDLIRS*AWPLTPQAYW YPGPSSCQGCYRCFLES LTMRN
23807	54175	A	23945	1	942	
23808	54176	A	23946	3	470	AMVGGGGVGGGLLENANPLIY QRSGERPVTAGEEDEQVPDSID AREIFDIRRCWARAGSGGLRW GEQ*YRAAGGAASQGVPGRG F*VGKGAESLFLHFPQ/LIRFLN DP/EHSLTLEELNVVEQVRVQV SDPESTVAVAFTPTISHWSMGT
23809	54177	A	23947	2	604	ARSHRISGGGSAMVGGGGVGG GLLENANPLIYQRFGERPVTAG EEDEQVPDSIDAREVFDLIRSH QMTPEHPLTLEELNVVEQVRV VQVSDPESTVAVGFPKPTHSGT CRHIGPPLIGLSIKVK/LRLSLPS AFSRWDVAHLLPGDPLPQEH VEQATLQIKEAGWATALGRTH HLLEVVNQCLSSPAGTWAFA
23810	54178	A	23948	1	1002	



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23811	54179	A	23949	89	2587	STSRDRRLSKRSRTTMAAQPRG GDYRGSFLLSLLGTPWEAWAG RILYSVSEETDKGSFVGDIADL GLEPRELAERGVRRIISRGRTQLF ALNQRSSGLVTAGRIDREEICA QSARCLVNFNLMEDKMNLYPI DVEIIDINDNVPRFLEEINVKI MENTAPGVRFPLSEAGDPDVG TNSLQSYQLSPNRHFS LAVQSG DDETKYPELVLERVLDRREERV HHLLVLTASDGGDPRSSSTAHIQ VTVDVNDHTPVFSLPQYQVT VPENVVPGTRLLTVHAIDLDEG VNGEVITYSFRKIIPKLPKMFHL NSLTGEISTLEGLDYEETAFYE MEVQAQDGGPSLTAKVLITV LDVNDNAPEVTMTSLSSSIPED TPLGTVIALFYLQDRDSGKNGE VTCTIPENLPFKLEKSIDNYRRL KVTTKNLDRETLSLYNITLKATD GGTPPLSRETHIFMQVADTNDN PPTFPSSSYVYIAENNPRGASI FLVTAQDHDSEDNAQITYSLAE DTIQGAPVSSYVSINSDTGVLY ALQSFIDYEQRELQLRVTAHDS GDPPLSSNMMSLFLVDQNDNP PEILYPALPTDGTSGMELAPRSA EPGYLVTKVVAVDKDSGQNA WLSYLLLKASEPGLFAVGLYTG EVRTARALLDRDALKQSLVVA VQDHGQPPLSATVTLTVAVAD SIPVELADLGSLEPSDGPYNYDL
23812	54180	B	23950	165	335	
23813	54181	A	23951	217	859	GSAMAQQRALPQSKETLLQSY NKRLKDDIKSIMDNFTEIJKTAK IEDETQVSRATQGEQDN YEMH VRAANIVRAGESLMKLVSDLK QFLILNDFPSVNEAIDQRNQQL RTLQEEDCRKLITL RDEISIDLY ELEEEYYSSSPGPLVVSQQLSEQ QLLSSAWTAWPKVTLSSLAPGP QYSVNGPAAIIAHPGTCASAGIS SLLPEPVLVLPVF
23814	54182	A	23952	1	1263	

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23815	54183	A	23953	70	2530	PGVSRLVSKLRRARGMGSGAG ELGRAERLPELFLFLTLFCPAL CEQIRYRIPEEMPKGSVVGNLA TDLGFSVQELPTRKLRVSSEKP YFTVSAESAELLVSSRLYREEIC GKKPACALEFEAVAENPLNFY HVNVEIEDINDHTPKFTQNSFEL QISESAQPGTRFILGSAHDADIG SNTLQNYQLSPSDHFSLINKEKS DGSKYPEMVLKTPLDREKQKS YHLTLTALDFGAPPLSSTAQIH VLVTDANDNAPVFSQDQVYRVS LSENVYPGTTVLQVTATDQDE GVNAEITFSFSEASQITQFDLNS NTGEITVLNTLDFEEVKEYSIVL EARDGGGMIAQCTVEVEVIDE NDNAPEVIFQSLPNLIMEDAEL GTHIALLKVRDKDSRHNGEVT CKLEGDVPFKILTSSRNITYKLV TDAVLDRQNPEYNITVTATDR GKPLSSSSSITLHIGDVNDNAP VFSQSSYIVHVAENNPAGASISQ VRASDPDLGPNGQVSYCIMAS DLEQRELSSYVSISAESGVVFA QRAFDHEQLRAFELTLQARDQ GSPALSANVSLRVLVDDRNDN APRVLYPALGPDGSALFDMVP HAAEPGYLVTKVVAVDADSGH NAWLSYHVLQASEPGLFSLGLR TGEVRTARALGDRDAVRQRL VAVRDGGQPPLSATATLHLVF ADSLQEVLPDITDRPDSDLQA
23816	54184	C	23954	75	149	
23817	54185	A	23955	442	618	CQRLRSWVSQPSFSFSPFTE* NILCLFVYLEVEFPSCCPGWSN NWKSSGKALEAN
23818	54186	A	23956	1	245	

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23819	54187	A	23957	30	1079	APCASFLTPLAAASVGKVLG LRGAAPMASVLSYESLVHAVA GAVGVSVTAMTVVFPDLTASIF DFSVDPKRKSKTTHMVVLEIK EEGLLAPYRGWFPVVISLCCSNF VYFYTFNSLKALWVKGQHSTT GKDLVVGFGVAGVVNVLLTTPL WVVNTRLKLQGAQFRNEDIVP TNYKGIIDAFHIIIRDEGISALW NGTFPSLLLVFNPAIQFMFYEGL KRQLLTFAPQLSSLDVFIIGAVA KAIAITTVTYPLQTVPLFPQFGR HRLNPNERTLGSLRNILYLLLQI FRTPSREPFYTSVTLVLSVA YPMPLSNITSA YRIGVLEKGG GSGKSDNSDDDDNDGGV
23820	54188	A	23958	1375	2451	VPRVPFAINVLTHSRQRYRRNL RFYADDPTRV/GGPTYHWVRE AEEERVVDNRMHDRFCELRTA AGHPVEGGRPLVIKITHPAET ALQRFKFLMYQVVASDLDTGL LSPDHTLSPYAKETLKLTLTARGI NFVFATGRHHVDVGQIRDNL KSYMITSNGARVHDLGDLNIFA HNLDRIASDLFGVVNDNPDIT NVYRDDEWFMNRHRPEEMRFF KEAVFQYALYEPGLLEPEGETK ALLTPGKLKNFLVEKMRTLGT AACPPYHIAFVIGGTS AETNLKT VKLASAHYYDELPTNEHGQ GSAMSSWNRNCWKPRNSVLA RSLAVNTSRTTFALSCHVTAH PARSAWASPV
23821	54189	B	23959	1	1386	
23822	54190	A	23960	1375	1609	VPRVPFAINVLTHSRQRYRRNL RFYADDPTRV/GGPTYHWVRE SVEERVVDNRMHDRFCELRTA AGHPVEGGRPLVIK
23823	54191	A	23961	433	741	
23824	54192	A	23962	12	224	
23825	54193	A	23963	3	2053	

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23826	54194	A	23964	1	2408	MGGADIAGPRREHNAKHPTVG LGSAAQTTCLPGPKQKGDPTRH QPVDKRNVDGPRQHFWCWRV EIHKEKRMKTGPLNESELEWLD DILTKYNTDHAILDVAELDGLL TAVLSSPQIEPEQWLVA VWG GADYVPRWASEKEMTRFMNL AFQHMADTAERLNEFPEQFEPL FGLREVDGSELTIVVPPGGRTA TNALSCGSLFGEETSPRGPADS TSQSIGGSGPHDCAKGIALVAA NGGDIRDYEGVDRSAKPQLPMI AINTTAGTASEMTRFCITDEAR HIKMAIVDKHVTPLLSVNDSSL MIGMPKSLTAATGMDALTHAI EAYVSIATPTDACALKAVTM IAGISTFFASSRMALMQASAPSA SFLPVTFTPIAAAQSRRAAAT GYRDRWLCHGDVLLQICANTQ DTVIHALRDIKHNSCPDDCSVQ HDAVIDDGCDFIDYLGGETVV ALNTPRADDYHPVMVLCAKTD KAHRNVIHTSKLCFITLTPESQ RSHGKSSKRVSFCFPVLLKH RRIVAQKYAELAYDLFHLGFD VLIIDHRGGQSGRLLADPHLG HVNRFNDYVDDLAAFWQQEV QPGPWRKRYILAHSMGGAISTL FLQRHPGVCDVAIALTAPMFGIV IRMPFSFMARQILNWAEAHPRFR DGYAIGTGRWRALPFAINVLTH SRQYRRNLRFYADDPTRIVGG
23827	54195	B	23965	1	3357	
23828	54196	A	23966	14682	14931	EIGPGPRPLPSPLP*ATSTSVLAA SGRPERTRHAGIKIVLEDIFTL WRQVETKVRKIRKMKVTTKV NRHDKINGKRKTAKEQSPLLQE SLFATGDSVSHNLLRALDVGLLA NLSALAEIDISNNKISTLEEIGF ANLFNLSEINLSGNPFECDCGL AWLPRWAEQQVRV/AAARGS HVCWAWLPGWPASAWHPLAG QWL.W*GVCRLPP*QQLRHRS SVLFSCPRRPA/CSQRPAAPAS PPARASQSPSRA

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23829	54197	A	23967	1	714	MVKLSIVLTPRFLSHDQGQLTK ELQOHVKSVTCPCEYLKRVINT LADHRHRGTDGFGSPWLLIITV FLRSYKFAISLCTSYLCVSFLKTI FPSQNGHDGSTDVQQRARRSN RRRQEGIKIVLEDFILWRQVET KVRAKICKMKVTTKVNHRDKI NGKRKTAKEHLRKL SMKEREH GEKERQVSEAEENGKLD MKEI HTY/MITPSARKPLCNVRMAA AEHRHSSGLPYWPYLTAETL
23830	54198	A	23968	111	216	ALLFPISWTSTPLGTQQAQCVC* PTPMPMRPVPS
23831	54199	A	23969	1	4710	
23832	54200	A	23970	3544	3723	RSIRSPPRCPPSRAPARRSAAA PPRR*PPRAPAAPRPGPP/CMAR PPPARPTAGSRVPL
23833	54201	A	23971	3	1119	EFGTSHRHRGTDGFGSPWLLIIT VFLRSYKFAISLCTTYLWVINTL ADHRHRGTDGFGSPWLLIITVF LRSYKFAISLCTTYLCVSFLKTI FPSQNGHDGSTDVQQRARRSN CRRQEGIKIVLEDFILWRQVE TKVRAKIRKMKVTTK\ATRLTK IKERRKTAQDHWRLKLSMKERE HREERQVSEAEENGKLD MKEI HTYMEMFORAQALR\RAED/Y YRCKITPSARKPLCNVRMAAA EHRHSSGLPYWPYLTAETLKNR MGHQPPPTTQHSIINDNSLSLKT PPECLLTPLPPSALPSADDNLKT PAECLLYPLPPSADDNLKTPPEC LLTPLPPSAPPADDNLKTPPKC VCSLPFHPQRMHSRN
23834	54202	A	23972	1	1149	

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23835	54203	A	23973	93	1165	HRRSAAEAPAAAVMPFFPGKS HKSPADIVKNLKESMAVLEKQ DISDKKAEKATEEVSKNLVAM KEILYGTNEKDPQTEAGAQLAQ ELYNGLLITLVLADQLIDFEGK KDVVAQIFNNLRQIGT'RTPTV EYICTQ'QNILFMLLKGYESP/IEI ALN/CGIMLRECIRHEPLGKIIL WSEQFYDFFRYVEMSTFDIASD A/FATFKGLLTRHKLLSAEFLEQ HYDRFFSEYKLLHSENNYVTKR QSLKLLGELLDRHNFTIMTKY ISKPVNKLKMMNLLRDKSRNI QFEAFHVFKAFVANPNKTQPI DILLKNQAKLIEFLSKFQNDRT DEQFNDEKTYLVKQIRDLKRPA QQEA
23836	54204	A	23974	3	158	
23837	54205	A	23975	3	1071	GVRASGRAVPRAVFAGMKRPC EETTSSEDMDETIDVGSENNYS GQSTSSVIRLNSPTTTSQIMAR KKRRGIIKRRDRINNSLSEL RLVPTAFEKQGSAKLEKAEILQ MTVDHLKMLQATGGKGYFDVA HALAMDFMSIGFRECLTEAAR YLSSEGLDSSDPLRVRLVSHL STCATQREAAAMTSSMAHHHH PLPHHHWAAAFHHLPALLQP NGLHASESTPCRLSTTSEVPPAH GSALLTATFAHADALRMPST GSVAPCVPLLSTSLLSATV/H AAAAATATAAHSFPLSFAGAFP MLPPNAAAAVAAATAISPPLSV SATSSPQQTSSGTNNKPYRPWG TEVGAF

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23838	54206	A	23976	1	1416	MPGNLTRKESSPLTDHCHTS SQFSHRFNAISFPFAELGCDHV ASAAADPLGVPVATQWAGGL SAALAAPRRPHSCRRLLQVLGAL GILKSAGRNVNFRFCGPLSIRGKP KTPLWEQEKPKLQTGSAGSQQ KRVMLKPSRGADRVLGRGSQR PAETDRETTDLRQKRKMKEGK ERTLRAARGETRRSNGNLARQ TVPEGCRSQTALQVVRNART PPCIPNLDRPPEACSSGSTGGM MPLRVASPSVASGESSHLSGR GDRGLVRCKVEELRFQPVAFPE FIPPTSPRADSESGDWCCTVLA NPSKTGGGWEQRKTECPQGR TQNPQQRGS/RNLVLLTAGQES TPRRSQLTRSPAERRTEEQGE DRKNRALGCNLFPRVPRHARD SQRALRASTQAPKSTFAFPGI HSGAVCSKRRICGVQGEPPFLPF ASQCSSCLKILPSGPTKELTSY LLHSGCGFLDKLRV
23839	54207	A	23977	3	139	
23840	54208	A	23978	141	734	GSOLRRPAFGVRVALEESKGLI RKDCSRGRACAGANACARRRR PPTMSGAAWRGTPLALVRSSRT RGVVAWQWSATRSPSDSCFP VARDKEDGEPKTKHLREEEEE GEKHRELRLRNYVPEDDLKK RRVPQAKPVAVEEKVKEQLEA A'SPEPVIEEVDLANLAPRKP DLKRDVAKKLEKLRRTQRAI GRLLDP
23841	54209	A	23979	3	585	GTVGGVCGPRRSSASPEQDQ DRRKDWGHVELLEVLAQARALF TAVPLSEEDRATVLKAVHKVK PTFSLPLQLPPVNTSKLLRDVY AKDGRVSYPKLHLPLKTLQCLF EKQLHVELASRMCVVSVEKPT LPSKEVTHARKTLKTLRDQWE KALCRELRETKNRLERQVYEG RFSLYPFLCLLDECEVVRMLLQ

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23842	54210	A	23980	1	3778	MRRRGVPVGPWGAACVMSALC WGRGAAGLKRRLRPGGRPLP GKEGTAGGVCGPRSSASQPE QDQDRRKDWGHVELLEVLQA RVRLQLQAESVSEVVNRVDVA RLPECGSGDGLQPVRKQVMG AKDATPVPCGRWAKILEKDKR TQQMRMQRLKAKLQMPFQSG EFKALTRRLQVEPRLLSKQMG GCLEDCTRQAPESPWEEQLARL LQEAPGKLSLDVEQAPSGQHSQ AQLSGGQQRLLAFFKCCLLTDQ
23843	54211	A	23981	101	805	HMYTSMKPSSQPRSWISTPHPK ACSSLSFPLSLDNWMNNINLREVI CTSRDGDKFWRMPECYIRGSTI KYLRIPEIIMVKEEVVAKPR GRGGLQQQKQKGRGMGGAG RVGSPSSGIVPGAGRQPHVAS LLLGVALAALPRRLPNLPGPPS CPLAMNRGPGRGAPRHGTQSS QCASWRSSGHIKSPQAPVSPM RGNGGAHLRSLATTLTLGRGS IQSQGRPPPEMMNWH
23844	54212	A	23982	133	1069	RIAWGQDRSCLQGPFATYVP GLILCSLQGWYGVQAGQDLQG LPRSQGWARRPGGLITCSPSP QDGDGKFWRMPECYIRGSTIKYL RIPDEIIMVKEEVVAKGRIGR EGPCQQAESQKQ/GVVRMGGA\ GRCVFGGRGRGMGPITG\RGH PDKKPGRQAGQTVSAHPDRLL RPLLARVGDFRSTVSENNLLQK GRGRPPRGEPPFRVLVTPSLFKV KAPFFLPKNRQILRVKCLLCCF FGFCETGPSQKLGNPLERVLG LKAIFSSPFASFGSKASHFRRG LFLHFLGSLSEASNQTGRFLIK
23845	54213	A	23983	1	326	PVSLECYTVPPEDNLALLQLYF RTLVTGA/LRPRWCPVLAYVTL WPHVNSFISQRPRIVDIDGKM GTLSCIQPFNRCLARRRTLCPNG RQETKEQKACLPGSRLFELF
23846	54214	A	23984	2	341	



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23847	54215	A	23985	114	712	DLISALMIWFHVIHTPYVCYI PTLPLSTSFPLSQLPVSLCYTV PPEDNLALLQLYFRTLVTGALR PRWCPVLYAVAVAHVNSFISQ DPQSSVSYSIFGRKGASN*AA SGPAGEEVSVKQGWVVPAL GSVPPLPVLLDEVKAARRSM LQKTWLLADEGLRQHLLHYKL PNSTLPEGFELYSQMPPLRQHY
23848	54216	A	23986	357	2771	FESSCPVGSFVGAGTPPSLYKV PCATAMKLLRLVLSAGRNI RLSSFDLRSRLCRIIAEAPQEL ALPPEEAEMLSTEALRLWAVA ASYGQGGYLYRELYPVLMLRAL QVVPRELSTHPQPLSMQRIASL LTLLTQLTLAAGSTPAETISDSA EASLSATPSLVTTWTVQVSLQPL VEPCLRQTLKLLSRPEMWRV GPVPAACLLFLGAYYQAWSQQ PSSCPEDWLQDMERLSEELLPL LLSQPTLGLWDSL RHCSLLCN PLSCVPAL EAPPSLVSLGCSGGC PRLSLAGSAPFFLTALLSLN TLAQIHKGLCGQLAAILAAPGL QNYFLQCVPAGAAPHLTPFSA WALRHEYHLQYLALALAQKA AALQPLPATHAALYHGMALAL LSRLLPGSEYLTHELLSCVFRL EFLPERTSGGPEAADFSDQLSL GSSRVPRCGQGTLLAQACQDL PSIRNCYLTHCSPARASLLASQA LHRGELQRVPTLLPMPTEPLL PTDWPFPLPLRLYHRASNTSPG\ LSPDTMTMG\TAMIRVLQWVLVL ESWRPQALWAVPPAARLARLM CVFLVDSELFRESPVQHLVAAL LAQLCQPQVLPNLNLDGGLRG LTSFPDLYANFLDHYEAVSFGD HLFGAMVLLPLQRRFSVTLRLA LFGHEHVGALRALSLPLTQLPVS LECYTVPPEDNLALLQLYFRTL
23849	54217	A	23987	291	454	KAETGSLPYTLCKNQFKMD*RL TC*T*NHKNPRRKPR*YHSGHR HGQRLHDENT
23850	54218	A	23988	1	613	

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23851	54219	A	23989	807	1345	RCEERLLPLNLAVIALPSGLER WSFFAVYNGHPGSQVAKYCCCE HLLDHIADNQ/DFTGSAGAPSL NVKNGIRTG/CPEPEVHDTERSE EDDHFIILACDSIWDVMGNEEL CDFVRSRLEVTDDEKVVYNEIV DTCLHKGSDNMCVIFLWFPN APKVSPEAAKKEAELGKYRLN SILSDQ
23852	54220	A	23990	344	636	SSLSLLDIWVGSKSLL*IVPQ*T YVCMCLYSSMIYSPGLIYPMVG WLGQMVFLVLDPSGIATLTST MVELVYSPTNSVKVFLFLRLSS TCCFLTF
23853	54221	A	23991	1	2793	
23854	54222	A	23992	18	409	SSVVEFVDPRVAPALLPQLPES SSHGSVLPTMAVCLDKGHKMT KNMSKPRHSCRRGRLTCHKFM WDMIREVCGFAPYERHAMVLL KVSCKDKALKFIKKRVGTHIRT KRRQEELSNVPAIMRKADAKK D
23855	54223	A	23993	1	609	MHPRGPPPPAQEESHTDESPGID HQSLARRAGRVGRTGGFSQLL AQNTNTSMLSSPASCTSPSPDGE NPCKKVHWASGRRRTSSTDSES KSHPDSSKIPSRRPSRLTVKYD RGQLQRWLEMEQWVDAQVQE LFQDQATPSEPEIDLEALMDLST EEQKTQLEAILGNCPRPTEAFIS ELLSQLKETPETQPAISEISLRDH
23856	54224	A	23994	1	204	
23857	54225	A	23995	1	418	MWNRLCNVVTISIGWKSLEGSE EDRKSSQWGTLP SGAVRRGPPS SRSKNGRSNSSLHPVPGKATGT QLEPMRAVMGDESCKATGTGL LHALGAHPLHRLKQHSIMMF QKVQVEPLRKEPHHWQRL*PF SSE*NHGPSR
23858	54226	A	23996	104	253	

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23859	54227	A	23997	666	1436	WRPCFWLQAKKEAPAP/PAKAKVKALAKAKAVLKD VHS HKKKKDRKSPTFRGVPKTLCTRA/KPKCLQKTA PRKNKLDHCAITK/PLTTKSTTKKIEDNNTLVFIVDV KANKHQFKQAVKKLYD TDVA KNITKRWDVTSIITSCYIHLRLA SRLALEDLLAGLMNCKLGTFW NEESGERVETRPESRFKQQSKLI YTIKNPGRKKYGAEKRAFWC HTDLLLHDHDEQVNHFFSSPST FTKCKRRKPFLREFVWIK
23860	54228	A	23998	2	301	
23861	54229	A	23999	1	242	MGMVRKQALERTEWALVCRQAWSSRMGYSTTVSPTQCQYTC SRGLLDSQLQLYKCTQALPEIH SLGHVCPSLITVKYSHYVLA AATLFIWDDNNESLRTGLLSVSTCK SGTDRDFMRISGMVSLTSEVDNV EVFHYFPLHIQGGKFWAVGAI MTIFVISIYYEPGAHWHHMWK LLKVYSLESQKREEDISKRLPNF LKSSRRPWEDLILMLRKSPEMS KEYRASPLSLSAALRSKDRQSR HRCVTSTFHIREVRCKSKSQGLP LCMHETA AHIC*TEGQQKGS GLLYIP*TSPEIFSAESDPPMAC
23862	54230	A	24000	2	948	CGTPTVVPCTGTSRRVRTATVE PTWKCRAAQQPPPPP/PPLWVK LPPPDSTKPELQLEELDADSS WMPHLHGSCPTGKLAVDARSSL FTEPAFPYWKKMKHTFQNILS WSKFTNLTVSVTQLWLLV VMA QTSYPHSLVGRKQVILHSSCLY SLDNKTS LAGDDHDDDDHDDN DSSPAEKGPPPTKSLDKADEQS HLR LA VLELGFYKPVNLLVA MTGCLLQLMMKKEQCGTHGG EGSTLEGSRPDVPQDLFSPTLGF YGSTLSADLGENVILKYLPSF PLQESEPSAEHGENLWALYVGF EERSEASLAKAP
23863	54231	A	24001	265	513	
23864	54232	A	24002	513	796	TGTA WTPPPPLTTGAPCTPPPR CTARGRT/PGDHLGGGPAATA GGPRTSPMSSGGPSAPGMRPPA SSPKRNNTSLNLSGLEPTFSFRIT FGFM

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23865	54233	A	24003	1268	2097	TPELTGAISLSTLGDPSFRRQPS AQMGHLLSTSLSTPPTTSNSETT QPAFATVTPSSSVLPGLPQTSF SGMGPSAELMASTSPKQQLPQF SAAFGHQLSSHGIPKDLQPSHS SIAPPTGFTVTGVKLQTFVSVT VLKATCLELFVPPGGFVVSLS GVKLQTVTPLHFGSNHPSAFYY YRLSFEMDKGKKRQFGVEKEK CGSLGGFVMLGNEEMIRRAVT LIAWTKIPFLGIREAKNPGSENI RLATILEAPPPSWELWEQGGPG APYYQP
23866	54234	A	24004	3	1163	GEVTSWNRGRGLRIWRYFLFGP VQKTMRLLSRLTYCWLEQDG RVSWRI.GLEIGSLPTVPVRLCP ANRSPPMVCGTTGRSSNSSTE KRMCTCSSRAALHFLKGPEGG TLMEEIRALIKEPPESSLTPSTRG GHSEKAPSKNHQAATVNTTSL RISHISHTHLIHCTGKEQHEPY EDAATRSRPEADLSRHERLTCR HLDLGLPDMQNRQCVPGSQGL RPVGGLEGPRHWCLVRSSRLG VLP RP RPQGCEDDAGGLQRQDC GQWRELVLPTPP/VCPGGASP HPKPLPDLDPFGSSRCFCLLP TCPAAPPAGSPSPCSQSPGCLPP VPTPSVLECCQTVLLEDSPQS HRNSAPHLQPGIWSHIPGSHWP CLVLAAGSTSSV

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23867	54235	A	24005	1	2502	MEARVERAVQKRQVFLCVFL GMSWAGAEPLRYFVAETERG TFLTNLAKDLGLGVGELRARG TRIVSDQNMQILLSSLTGDL NEKLDREELCGPREPCVLPFQL LLEKPFQIFRAELWVRDINDHA SVFLDREISLKILESTTPGAFFL ESAQDSVDVGTNSLSNYTISPA YFHINVHDSGEGNIYPVLVNLQ VLDREEIPEFSLTLTALDGGSP RSGTALVRILVLDVNDNAPDFV RSLYKQVPENSPVGS MVVSV SARDLDTGSNGEIA YAFSYATE RILKTFQINPTSGSLHLKAQLDY EAIQTYTLTIQAKDGGGLSGKC TVVVDVTDINDNRPCELLSSLT SPIAENSPETVVAVFRIRDRDSG NNGKTVCSIQDDL PFILKPSVEN FYTLVTEKPLDRERNTEYNITIT VTDLGTPLRKTEHNITVLVSDV NDNAPFTQTSYTLFVRENNNSP ALPIGSVSATDRDSGTNAQVIY SLLPSQDPHLPLASLV SINADNG HLFALSPWTTMPLRAFEFRNNS PALHIGSVSTAETNIQVTSLLP PRNPHLPLASLVSINTDNGHLF ALRSLDYEALQEFEFVVGASDR GSTALSSEALVRVLVLDANDSS LFVLPQNGSAPCTELMPRAA AEPGYLVTKNAWLS*QLLKAT EPGLFGVWAHN/GTDRLLSERD TAKHRLMVLVKDNGEPPRSAT

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23868	54236	A	24006	1	1960	MEARVERAVQKRQVFLFCVFL GMSWAGAEPRLRYFVAETERG TFLTNLAKDLGLGVGELRARG TRIVSDQNMQILLSSLTGDL NEKLDREELCGPREPCVLPFQ LLEKPFQIFRAELWVRDINDHA SVFLDREISLKILESTIPGA ESAQDSDVGTNSLNYTISPNA YFHINVHDSGEGNIYP VLDREEIPEFSLTLTALDGGSP RSGTALVRILVLDVNDNAPDFV RSLYKVQVPENSPVGS SARDLDTGSNGEIA RILKTFQINPTSGSLHLKAQLDY EAIQTYTLTIQAKDGGGLSGKC TVVVDVTDINDNRPELLSSLT SPIAENSPETVVA NNGKTVCSIQDDLPFILKPSVEN FYTLVTEKPLDRERNT VTDLGTPLRKTEHNITV NDNAPFTQTSTYTLFVRENN ALPIGVSATDRDSGTNAQVIY SLLPSQDPHLPLASLV HLFALSPWTTMPLRAFEFRNNS PALHIGSVSTAETNIQV PRNPHPLASLV ALRSLDYEALQEF GSTALSEALVRVLVLDANDSS LFVLPLQNGSAPCTELMPRAA
23869	54237	A	24007	1	966	MGHHLMDKLVALGGLYYAIQ RHYATKCSVLKNDQILVIGLFM IQNVYRKHFANPLSALFLQQGI ELFAAIAIEHITVAERNHAITQI RLEAQTFIDSLKEWHNAIRKSL DYEALQAFEFVRVGATDRGFAL SSEALVRVLVLDANDNSPFVLY PLQNGSAPCTELVPRAAEPGYL VTKVVAVDGDSGQNAWLSYQ LLKATEPGLFGVWAHNGEVRT ARLLSERDVAKHRLVVLKDN GEPPRSATATLQVLLVDGFSQP YLPPLRAAPAQAQADSLTVYL VVALASVSSLFLSVLLFVAVR LCRRSRAAPVGRCSVL

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23870	54238	A	24008	1	2673	MEVMGNMGSKILITGITSTKRK VALLAKKRERKIISQRKDVTD RAKRQSEESIGKETVVIGIGLI SKDSAAAIICESRWLSHFER LIQRRMEARVERAVQKRQVLF LCVFLGMSWAGAEPLRYFVAE ETERGTFLTNLAKDLGLGVGEL RARGTRIVSDQNMQILLSSLT GDLNLLNEKLDREELCGPREPCV LPFQILLEKPFQIFRAELWVRDI NDHAPVFLDREISLKILESTTPG AAFLLESAQDSVDGTNLSNYT ISPNAVYFHINVHDSGEGNIYPEL VLNQVLDREEIPEFSLTLTALDG GSPPRSGTALVRILVLDVNDNA PDFVRSLYKVQVPENSPVGS VVSVSARDLDTGSNGEIAAFS YATERILKTFQINPTSGSLHLKA QLDYEAIQYTLTIQAKDGGGL SGKCTVVVDVTINDNRPPELL SSLTSPAIENSPETVVAVFRIRD RDSGNNNGKTVCSIQDDVPFLK PSVENFYTLVTEKPLDRENT YNITITVTDLGTPLKTEHNITV LVSDVNDNAPAFQTQSYTLFVR ENNSPALPIGSVATDRDSGTN AQVIYSLLPSQDPHLPLASLVS NADNGHLFALRSLDYEALQAF EFRVGATDRGSPALSSEALVRV LVLDANDNLFPVLYPLQNGSA PCTELVPRAAEPGYLVTKVVA VDGDSGQNAWLSYQLLKATEP
23871	54239	B	24009	1	993	
23872	54240	B	24010	1	4056	
23873	54241	B	24011	1	906	
23874	54242	B	24012	1	4318	
23875	54243	B	24013	41	1935	
23876	54244	A	24014	3	328	GWQSGPVLGGLCGTAGQSCGD GDGIWWAAQAAGDPAHLRL LTHGQSSVPEAPVRAHQPALP QPRSAARECGR/AGRSTTNSL RKRVAESYMIVAPPMPSSWSS SG
23877	54245	A	24015	114	567	VKKPHSAEWVPLWGLQPGWR QPRCNSGSEKELRRPVNSQEI LSPVTMRKPAVSVCCDLTLREA APPFQRHERTYTGEKPYKCKQC GKAFSGFCTYQILEKAQTGKQP YE/AHERTHWKQNHDCQTFGK AFSSSSI.CIHEKHTGEKLYE

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23878	54246	A	24016	170	491	PAQHQRGLWQSPTHQALTLMLSVHREDWKPVLTINSIYGLQYL FLESKNRWLGLERLGFPCPSGLIT PPTCTGHRSP/NPEDPLNKEAAE VLQNNRRLEFQNVQRSMR
23879	54247	A	24017	1	1062	
23880	54248	A	24018	2	700	RRPTRPGGGSGGGGRMIKLFSLKQKKKEESAGGTGSSSKKASAAQLRIQKDINELNLPKTCDISFSRSQTTLLNFKLVICPDEGFYKSGKFVFSFKVGGQYPHDPKVKCETMVYHPNIDLEGNVCLNILRGDWEASPLRLNSIYGLQY\LFLEPNPEDPLNKEAAEVLQNNRR/VCFEQNVQRSMRGGLHPAPPTFERCLKIGLAHTHPPPRPQALASPAKYLLGAMG
23881	54249	A	24019	302	884	PMAPLSSQPTLFPNTLTQAQQVQLTKGLRKWMVQHGGDGVVVEENRTTVPGAPSQTCFVTSF/EVNAPAIQSWCKKQVLDLEEGLWPELLDSGRIEIVSDWWGARHDSGCMYRLLVQLLDANQTVLDKFSAVPDPIPQWEQQCLPFTFTHVFFQHSRWGVRFCVFSEH RGPETHSSGAGPLLSPEQLQC
23882	54250	A	24020	274	866	SLLNLPSSWDYGVVSYEQANCKGEQVFVEKGEYAHWDWWTSSQRTDFSSLR/RPSKVDSQEPKV\YLYENPNFTGKKMEIIDDV\PSFHA/HGYQEKVSSVWVRSGMWVGYKYPGYRGLQYLLKKG DYKDSNF/GARHPQV/QSVRCI HDMQGHQCGAFHPLGTQEELAGQKEQMEQVPFWLARGDICE LSGKKSVI
23883	54251	A	24021	179	374	AASIGRSMTEKAHAGPRPGRN*ADAPSSDTLFPDALLSNQAGRLACWLFSGPQTKNDHFIFK
23884	54252	A	24022	1	141	



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23885	54253	A	24023	1	506	PHSPLWKTLCSPSSGVCCGFVT LFCNDRFACLFQLTPPPSPAWM TAAASLLASLLPALPPLNLQDA KFVEERRKQLQNYLRTVMNKV IQMVPEFAASPKKETLIQLMPFF VMGLQVGMVGLFHFVMMMDQ PQPSTLTRADESPCDRVLSPCAA HRKQRDCCLSWKAEPE*FLVK* KTLCSPSSGVCCGFVTLCNDR FACLFQLTPPPSPAWMTAAASL LASLLPALPPLNLQDAKFVEER RKQLQNYLRTVMNKVIQMVPE FAASPKKETLIQLMPFFVMGLQ VGMVGLFHFVMMMDQPQPSTL RADESPCDRVLSPCAAHRKQR DCCLSWKAEPE
23886	54254	A	24024	1	396	
23887	54255	A	24025	1	1176	MVPGDLSQTSQSLSDFEISN RALINVWIPSVFLRGKAANAFH VYQSQIAGVSGIARKRALIPFGK STFSYVCITNIKLTALPSPWDYT CHFNLPKAQKPGPEPTKILTIME WLALLQGDPGSWIQKEFIVGKR GGKMDNILWDQRDVQPPGLRP HQLLHSGGGPLISFRNGGPILV WELRRKGASGKEIVGSRVFRES DEVLVWKNPKTLQKEDEEVNS THPMHTYPCTHCQVFCVTAIEI NTYLAQACIVLEMSMLPPGERPLF LLRLTTVLEVTVFDSQWSRPYH VSADPSAWKHHHHYHHHHY QLSSSPITITINHPSPL/LSHASPS P/CHPSPSPAVHHHHQPSITITSR PSPSPAVHHHHQPSITIIRPSSITI INHPSQASSHHHHQPSIPFIVSH
23888	54256	A	24026	1349	2125	
23889	54257	A	24027	670	972	KTDEWNIYRRYTEFRSLHHKLQ NKYPQVRAYNFPPKKAIGNKD AKFVEERRKQLQNYLRSVMNK VIQMVPPSSLPAPKKETLIQLM PLLRSTSTPPRRAL
23890	54258	A	24028	1	699	

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23891	54259	A	24029	221	864	VDCPRSFSAVVVWQGRFWLLS FIPGGFLGMLTFFASGMNWTVT LLGFLAGNLEVEPSDTIENVKA KIQDKEG/PPDQQRLLIFAGKQL EDGGTLDSDYNIQKESTLHLVLR LRGGMKIFVKLTGKTTITLEVE PSDTIENVKAKIQDEEGIPPDQQ RLIFAGKKLEDGRTLSEAIFLDV GLLSCRTVSSCGAFILGWSVVI LIPVISTRDDTSTTK
23892	54260	A	24030	2	864	PSFRLA WPEGR LALLGELV CVP VVGGRMGNGRILV SADRSGGHI CLKTLTGKTTITLEVEPSDTIEN VKAKIQDKEGUPPDQQRLLIFAG KQLEDGRTLSDYNIQKESTLHL LVLRLRG/GMQIFP*RP*PAKTI TLEVEPSSHHRKF*RARFQKKE GIPPDQQRLLIFAGKQLAEDGRT LSDYNIQKESTLHLVRLRGGM QIFVKLTGKTTITLEVEPSDTIEN VKAKIQDKEGIPPDQQRLLIFAG KQLEDGRTLSDYNIQKESTLHL VLRLRGGC*FESHGIRSAQ
23893	54261	A	24031	1	124	
23894	54262	A	24032	97	296	
23895	54263	A	24033	71	269	AAGYRCPCHPGARRTAATRR CHPSPAVARPAGCSGPP*CYAL SPDPARTRRGDPTPPCRLPRA G
23896	54264	A	24034	206	667	STRGLPKCWDYRREPPRAKS SFLTAQACEAQKTSATRRKD CFLQPTFWLLPFLVLEKGAPSA CRGKRYVRAVWLSLSTGAILQP YPKLQVSNWL*CARDQEMPEG CL*QSCQTL SLLVLPKEKDV *EISPWTPAPPEHQYTVRTFQSP
23897	54265	A	24035	3	190	GTFKNDILLISKSY*APLPSD FSHSDTSS*KPSKSLKTYSPPPF SAKTSLLQCPRNILEY
23898	54266	A	24036	197	474	SPLSHRGASELLSSLHLRSSCS PKMAETPEAGFQIVHSASPPQG TAPGNPWAAGAGG*HCEPGQL AGPYRAASFQGA WPPHPRAK LGVS
23899	54267	A	24037	164	323	GQEKITLANMVIPRLY*KYKKI SWAWWHAPVVPATWEAEAGE LLEPGRQLQ

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23900	54268	A	24038	582	1166	HCEPGQLAGHILGQPLSSGRLGH LMASHKLSNNYYRTRDGRRES VPPSIIMWSQKALVSG/KPAERV YGDANHTVGNMCA SRLGGYL GFSIRIVVFIWYLGLSVVVNML VGRQCDWQGLVYGGPELLVFS GNMPGEVARGKHRNEKAPLSM RPASQCRVFCVLKGCSESRHK EQPTDTTIFKNCNTHCEGPWLH
23901	54269	A	24039	1214	3878	
23902	54270	B	24040	62	1242	
23903	54271	A	24041	74	408	
23904	54272	A	24042	790	1877	DEIVDPGSMKWSYKSQLNYKT KRPSVFVTALTHRPDILILGTLE SGHSRNLTCSPWACKQGTTP MISWIGASVSSPGTTARSSVLT \LLPQSPQDHGTS\LTQCCTLPG TGVTTTSTVRLDEAYPA\WNL MTVFQGEGTASTTLRNGSALS LEGQSLHLVCAVDSNPPARLS WTWGSLLTSPSQSSNLGVLELP RVHVKDEGEFTCRAQNPLGSQ HISLSLSLQNEYTGKMRPISG MLGAFGGAGATALGFLSFCIIF VGVRSRCKKTARPTMGVGD GMEDTINAVRGSASQGTPELN PRQKEQAPQNHGSANALANPP RPEEGEIQYASLSFHKARPQYP QEQAIGYEYSEINIPK
23905	54273	A	24043	183	1176	VHQLVFPRQHQRHSVFPKANSS WIHQLFPQ\QHSYGPSAVSAGQ HQLMVHSLFPQATPAHASISLV FRQGTGHLHRVHQRRIPSAQH RHRLHQRRLP\SAQHQRHRDSIS VCFPFRAHTRPHCDSIQRQHQL MRSIGLFSSGKTDPTVTLLKEA AAEHEICLCRHPVNLRETCAH LGNAAHAVFPRGNQKKPEMCP YLPTHKLVVPTPLIPLEAALRN IAHSRSIPPKKFSPTPDTSDDY LVFNSFPYSKLTTPKTGGQENL GSTRPIPCNGPPTRGPHNGAKY PGDVSHPGVGTWVANRLTG QYEENGKSFLLICTIATFQVNA
23906	54274	C	24044	178	342	
23907	54275	C	24045	86	283	
23908	54276	C	24046	91	177	
23909	54277	C	24047	11	169	
23910	54278	C	24048	209	673	
23911	54279	C	24049	164	208	

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23912	54280	A	24050	182	255	DAESRRSWQPLPEPLRLPRLSD
23913	54281	A	24051	146	456	LKNHNRSEKPCPTLTDIPPQK KCKWVPLALSADITL*KSFSWL ILAQKAPPLSTL*PPLLPAEQM SFDLIFLYLPKSYKVAPPLSSFT ESLFLGLSPAPR
23914	54282	C	24052	90	215	
23915	54283	B	24053	1	1059	
23916	54284	C	24054	129	215	
23917	54285	C	24055	19	347	
23918	54286	C	24056	228	260	
23919	54287	B	24057	406	602	
23920	54288	C	24058	7	375	
23921	54289	A	24059	322	400	FLLSRVPSV*DPTEENTVQLTW EWLP
23922	54290	A	24060	818	1078	ILDVFSYTMKIEPSLRSPISPH YNL*QLPP*LDP*ESGYKTPLSA LLLTFLLYISSFASHKVSSSSVD PLPTCAYLPIGQAHVH
23923	54291	C	24061	1	411	
23924	54292	A	24062	1	861	
23925	54293	A	24063	425	484	
23926	54294	A	24064	1844	2097	HSAGTKLRLVNFLTTLRLVNS VMRLKKSFMVMVQRMVSIPKV WSISLGLLSFVPSVWDPT/ENR TVQLT*HPLPELELGPRLSD
23927	54295	A	24065	729	807	LFSCSCPPKPPRP*LTAEGGLC IFL
23928	54296	B	24066	1	1317	
23929	54297	B	24067	509	810	
23930	54298	A	24068	1	385	MDLPSTVRVTRSSASVMVQGG SEAIRQRQSSAAKPRRSGKESKS LGPEFQGLWEWLPEIYFSQFRR LGNPKSRHQIQCLMGACFVV TERLSFQDSDLAEPRHSYPLQ VKRLDLPTVLETDLEKLDPF TTIPSPVETLQCLFVSLRIKSRVP *FWISQPEL*EINFQWQPLPEPLE LWPKAL
23931	54299	B	24069	1	774	
23932	54300	A	24070	350	640	SLQGCLSDNSPTFORCQTQGR LPWSTLSGKSHFSGGVARACY TCQKSGHWAIRNASSPGFLLSR VPSVSDPTENRTVQLTWQPLPE PLELWPKAL
23933	54301	B	24071	85	331	
23934	54302	B	24072	1	1844	
23935	54303	B	24073	1	1169	

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23936	54304	A	24074	63	220	NLTGNIWNREWYSHFDLLD PVGFGSGSIAKMPKRKLFKCHSV *GHWRSKSE
23937	54305	B	24075	497	898	
23938	54306	A	24076	3	678	GGGFSRDRRTIALQPGQIWM WGIGKQVGGCGWLRGKNRVV GAAKDQSGTGKIFYFIPKAMG AMEGSGQRRTLDPGAHRNPS GGYSATDCEGSRPAPGEINSHA SHTKPVWVFFQTQRMKFGAVT RIGGLPWEVNPPLSSCSLLRE/KD PPTTSGPQSNQPRKH/LTNFKSG A/CYTCKRSGHWAKCEPLPGFL LSRVPSVWDPTEN/RTVQLTWQ PLPEPLELWPRLSD
23939	54307	B	24077	522	873	
23940	54308	B	24078	329	530	
23941	54309	C	24079	147	439	
23942	54310	A	24080	3	3889	
23943	54311	A	24081	2	394	
23944	54312	A	24082	1	197	
23945	54313	A	24083	1	205	CLRAGPHALYLLC/NIPEFTFL/S RADFAARSQLVDLLTDP/FQ/QEL EELLQVGA VTLIRILPCLPCLP
23946	54314	A	24084	134	182	SCFIPSSQPVAGTERSFLGPQY FQTPHNPSGPGGLGNQLMR*AF
23947	54315	A	24085	257	481	
23948	54316	A	24086	415	630	
23949	54317	A	24087	123	340	
23950	54318	B	24088	49	270	
23951	54319	A	24089	1	900	RSRVREVVALLRRGLACIPSLG VWRFPVSGVLA VSDRWCLAVS DRWCLARATLSCFCGAMPYQ TRRQENDLRTASIAV*RRKQQN DH*KQRRWQNIQRKGPKRYIVI AGNSQSHQPMIFSMRLKLPKVT CRDVLPEIRAICIEEIGCWMSY STSFLTDSYLKYIGWTLHDKHR EVRVKCVKALKGLYGNRDLTA RLELFTGRFKDWMVSMIVDRE YSVAVEAVRLLILKKNMEGVL MDVDCESVYPIV*ASN*GLASA VGEFLYWKLFYPECEIRTMGGR EQRQSPGAQRTFFQLLL

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23952	54320	A	24090	1	812	MARTPGAELAVAKYPKKGSQA VHRHSRKQSEPPANDIFNAKA AKSDMQHREVRVKCVKALKG LYGNRDLTARLEFTGRFKDW MVSMIMDREYSVAVEAVRLLI LILKNMEGVLMVDVDCESVPIV LFYPECEIRTMGGREQRQSPGA QRTFFQLLSFFVESKLDHAA YLVNDLWDCAGTQLKDWEGL TSLLEKDQSTCHMEPGPGTFH LLGESPGISAIVQGAIEKSGERSS PPPKRIGSMKEGPMVLPLALDT QCWFPEVPLD
23953	54321	A	24091	152	1209	MPLKNVQNITHFPLEKELALPL LIFSPHLHWCVSGYLSLPLNPKP HFSNPLLLQVILPALTLVYFSIL WTLTHISKSDASPGECGS*MG* WEQRNLCPSILPLQSPLCPTAA VEFEGTRMVAFCELCQSCUSD VDTEIP/ESR*VLAQSGRKKAEY PCPPFFRRN*QCHYLPWETFCPF KHFFFSPLQAFVLLSDLLIFSP QMIVGGRDFLRPLVFFPEATLQ SELASFLMDHVFQPGRPGQW CSDSIPGAQ*GLGLGCSKSI*GR KLKSVIPFCLPCEPGDSQEDHLQ IERLHQRRLLAGFCKLLLYGV LEMDAASDVFKHYNKVHQGPS LGFTKPLVMPRFSAAATV
23954	54322	A	24092	37	625	SLMLLTPHFHPPEECPPPIATAH HLLPFLSTWELFLQQLQEVVV KHAEPVLEAGAHAYLLCNP EFTFFSRADFARSQ/LV*DLLTD RFQQ/LEELLQGRELGAGTMG DTPNKGWGGCKTGGMWDL MSSGGKCYCGIFFSILPSQIED EVYNLGSHSETPLCLLQVSGFP PLPHPVFTGVCVGLCSFPV
23955	54323	A	24093	2	198	PNDRSRVTREMSAPSRSLGRFL SVGVWHAPPSLALVPPCRCTR KTYHGRGAPLRVELPTCMYRL SNVQGRSGGAPAGVGHLQSLV DEWLDYKQDQ/DAGFL/ELVN FFI*SCGM*RNSGDYPLTAPGL SWKKFQGSFCEVGTLCVCRQ YILLHDDFPMDNLISLLTGFS QVCAFRHTSTLAAMKMLTSLV RVALQLSLHQDINQRQYEAER NKGPGQRAPERLESLEKHKEL H*YQAKNLSRACASTCGASH
23956	54324	B	24094	211	3841	

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23957	54325	A	24095	1	1798	MSLLAFKILVGFEGSKARVQT DLFYRSLVLFLLQICFPLSCFG NWKGEEGGMQRVVLGKNEKI ASPHRLPAPTARFAVSLQNLRI LGAFFQFGPVLFVLWRPLDRDN ASPOSEFLNSCGITAYLVGKRE GGVERGGGGRSSERCRTLFSFS PRHSHVFSRFRCKILKKSPGAN GGRCRARGGGLHGARAANPPT PIAEPARLPACLSRAEPEPQAAE PAPPPVGVVRSRPLSHRRHPVV CPAAPIRLINKRLAHSARPAGIC CVSRSGLSALAAAGTASMFQLP ILNFSPPQVAGVCETLEESGDV ERLGRFLWSLPVAPAAACEALN KNESVLRARAIVAFHGGNYREL YHILENHKFTKESHAKLQALW LEAHYQEAELRGRPLGPVDK YRVKKFPLPRTIWDGEQKTHC FKERTRHLLREWYLDQPYPNPS KKRELAQATGLTPTQVGNWFK NRRQRDRAAAAKNRSQTSPPWA EAFRFPECGRSLAKHFAEEPGLI PQAQMLLTILFAFRSGRPDPTRS REHLLRRKPQADAPLEMMLQQQ VLSQGSGRALRAEGDGTPEVL GVA TSPAASLSSKAATSAISITS
23958	54326	A	24096	3	1034	GLHGARAANPPTPIAEPARLPA CLSRAEPEPQAAEPAPPPVGVV RSRPLSHRRHPVVCPAAPIRLIN KRLAHSARPAGICCVSRSGLSA LAAAGTASMFQLPILNFSPPQV AGVCETLEESGDVERLGRFLWS LPVAPAAACEALNKNESVLRAR AIVAFHGGNYRELYHILENHKF TKESHAKLQALWLEAHYQEA ELRGRPLGPVDKYRVKKFPLP RTIWDGEQKTHCFKERTHLLR EWYLDQPYPNPSKKRELAQAT GLTPTQVGNWFKNRRQRDRAA AAK\NRLQQQVLSQGSGRALR AEGDGTPEVLGVA TSPAASLSS KAATSAISITSSDSECDI

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23959	54327	A	24097	3	1024	GTRVGVAVRSVRLLLGPGAGL RGGVVLKVSPPCRGRRVPVR AEGARGRGPINKVPGASSGAA VGAARLTAPLLAKAMASKLLR AVILGPPGLGKGAPVCQRIQAN FGLQHLSSIGHFLRENIKA\STE VGE MAKQVYREKVFLVPDIHVI TRLMMSELENRRGQHWLL\DG FPRTFGQAEALDKICEVDLVIR LNISFETLKDGLNRRWIHP\PSG RVVYNL\DFNPPHVGIDDVTGE PLVQQEDDKPEAVA\RLRQY KDVAKPVIELYKS\RGVLHQFS GTETNKNIWVYVYTLFSNKITPI QSKESILT\AQWEEPGRCGSFIP IVWCSNWCCCNLEA
23960	54328	A	24098	2	178	
23961	54329	A	24099	96	340	FGALTRIG\DLPWEINPLSSCSLL PEKDPMTSGPQTDPQKEHLTN FKSAARRSSRTSSHRNLLHVLEI WQLDQGMPAARDS
23962	54330	A	24100	3	155	
23963	54331	A	24101	1	162	
23964	54332	A	24102	1	1032	
23965	54333	A	24103	167	476	TAMLLTQSLFGGLFTPTHMKFG AVTQIG\DLPWEINPLSSCSLLR EKDPPTTSGPQTHQPKHELTNF KSDHHGCRASGNSHSGRMLLIF SPSRGLYACSCVKT
23966	54334	A	24104	371	772	
23967	54335	A	24105	146	312	OKRSIPNSSPIP*SHLLANCTK/ DHHFLNGSKSFQPLLSCKFS* GQHFLQGALCT
23968	54336	A	24106	76	441	
23969	54337	A	24107	1	1284	
23970	54338	A	24108	150	371	EESRAAGIPWPSGQISGTC SKL\ CGRFRWRNAWPLRFRHLEVLV CWRCGGLSHSGKELQLF SII VHLEGEVN
23971	54339	A	24109	280	351	
23972	54340	A	24110	1	483	
23973	54341	A	24111	129	363	FGVVTQIG\DLPWEINPLSSCSL LCEKDPPTTSGPTKKHLTNFKS SKRPLFTLFSNLPHYPSTSFQFS WRYTSISPF S
23974	54342	A	24112	2	111	
23975	54343	A	24113	3	808	



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23976	54344	A	24114	497	815	TALLLTQILFGGLFIWTRVKFG ALTWIGADLPWEINPLSSCSLLH EKDPPTTSGPQTDQPKKHLTNF KSACFERIKACYHSPATAWPFK AYKLSLQFPHTCPKTR
23977	54345	A	24115	1	753	
23978	54346	A	24116	1	513	
23979	54347	A	24117	625	701	IHVAHKLAVVMPGCKRGCLSL FYFQLIWSHKGWVRSGEASHR EMAGLLLLCSS*PPSPCETLPRS EPSL.CDSRSAESRTKTSNLSCIP ASLQQVCGPREFIWSGNHCHPF LPITRCYGCCLYHYCMENSIL
23980	54348	A	24118	458	605	VVEEGIEDKRVYRLGTTGWIGK TIWLVRRRS*TNL*DLSGFWTG KMGEL
23981	54349	A	24119	566	769	IKEKGGLFSFSASNWLKQVTSS FLCSPPLSLKSKLLANRDKY RMCGBPVPANGNRTQQ*SKHVR
23982	54350	A	24120	345	664	GEIAASQEPAGGFGSSAQPCPL PWTGPPTTQAPGH/CNSAPSSRD NASSNGRRQRVPTVPGGGLIL QREHILLPLGPALRAAGKEPAT AATIPESPGGDSDDSR

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23983	54351	A	24121	2	2204	IDMIFTGPPSTPKHKKSQKGS AFTFPQQSPRNEPYVARPSTSEI EDQSMMGKFVKVERQVQDMG KKLDLFLVDMHMQHMERLQVQ VTEYYPTKGTSSPAEAEKKEDN RYSDLKTIICNYSYETGPPPEPYSF HQVTIDKVSYPYGFADHPVNL RGGPSSGKVQATPPSSATTYVE RPTVLPIILTLDSRVSCHSQADL QGPYSDRISPRQRSITRSDTTP LSLMSVNHEELERSPGFSISQD RDDYVFGPNGGSSWMREKRYL AEGETD TDTPTPSGSMPLSST GDGISDSTVPLFLSSEILQKQVG QSITSMGLFLSRGSPMKLCMGL ACVLSLWNTVSGIKGEAKKEK GMTFLPTTDSKKFFSLLSVTSYS SFAFHKFSVAVYNISNLKTVDP AKFPTRYCYCLNNRNTDLSDF ALLVDHGNSTSYLTEIFKSTSIL SVNQSNESDCIFCVMTGKSGR NLSDFWEIEEKYPIINITYFTSGL SGVLALLLTQSLFGGLFTRTRM KFGAVTRIGDLPWEINP/LSSCS LLHEKDPPTTSGPQTDQPKKHL TNFKSAARPFTLGQGGQVPLNPF SFTLSGKSCFPRRQEPNRLFPH PNLLSLCPNPLFCPNPFSTLE GKNHHHPFVSQVFSGLGPPS LWEHSPMAHRLRVQPRQQPPDI HKQVISLQSGHSLLVKSQWSQ DPIKQLPHHHKNTASVCINPSV
23984	54352	A	24122	2102	2529	ETTMSFIFSLLYPRFMHLSFLVS PALRSISRRLAAAFPRGRSLDLQ PAMPEPTPS/CGLLCVPSPPMS AAPCSKVPSHFLAFMSCNTAK VCSFTAASETTSPPGGTNNR RATLRAVTLTRRSATLTRSAA SHRSSTV
23985	54353	A	24123	299	567	TAMLLTQSLFGGLFTQTRMKF GAVTQIADLPWEINPLSSCLL IEKDPPTSSGPQTDQPKHELTN FKSGETKEMHFIRGPKTPAPVM
23986	54354	A	24124	684	822	KVKRQSYSQNTFYYPICSRH*IK LQKLNSGPQTPQQLINLAIKV

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23987	54355	A	24125	1163	1826	TVLLLTQSLFGGLFIWTRMKFG AVTR/IRGDLPWEINPLSSCSLL HEKDPPTTSGPQTNPQKELLTN FKSVPTPSVAESFQSSFSTDPSD PSSPPQAAPRQAKPGPNSSASA PRPYNPFITSPHTWSGLQFHSA TSPPPPAQQFPLKKVAQVKGT KWLKTDAAARSPQKPTGTITDAL DNSHSGGPIMDRPLLKSPKQF LRLLVFSKTFISLTILNLQE
23988	54356	A	24126	636	922	TATLLTQSLFGGLFTRTRMKFG AVTRIGDLPWEINPLSSCSLLRE KDPPTTSGPQTHQPKHELTNFK SDKGDMFYPWTQNSSAGHGLG RQPSLGV
23989	54357	A	24127	728	1013	MKFGAVTRI/IRGDLPWEINPLSS CVLC/CREKDPPTTSGPQTDQPK EHLTNFKSGKRPAFYSLQPPSL SLNLFLLSILAPHFNLSLLISIPF IFW
23990	54358	B	24128	1	3993	
23991	54359	B	24129	105	420	
23992	54360	B	24130	45	2866	
23993	54361	B	24131	1	1680	
23994	54362	A	24132	1257	1403	
23995	54363	A	24133	1	2130	
23996	54364	A	24134	1	725	
23997	54365	A	24135	2825	4123	RAADGVITLEDNDPCVKKDSRR FPYEDRLDLVLKGTADIPRLTV HRGSEYIISRAFPCYFIKEQSVI NHCYTEIDLKIFRQYLAPALGV THRFVGTPEFCRVTAQYNQDM RYWLETPTISAPPIELVEIERLRY QEMPIYASRVMFIFRPDNTALP RNDTPQMVKLFMDRFQVVKDI GVIELKVVEDQRTAVVMIFRA FVKEGAVIVIRFDNKEVAFQAM SGNLTVPRTSDYKARDIFFQY RFLTRISTGHGVANNHQIRLRL ELAGIVPLNQLNALLKVYPLS KLCNSPKKQCQLESFRLTQWV VKKPISNRQSGLGIVLPGLFRV LSPGNLSPKGTIVLPNEVQPGF LGNLVGPI/RGWIGLS*IYLPHGF TG*QNSAGLADH*RASASPERA GVYPIHNERCAHRASRY*YK/W HPDVSAAADHLLG

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23998	54366	A	24136	137	1199	ISSGGPRELGLKMHVPGSQLSQ LPPGLDSTFEAAIVGNLLDNAF EASLRSDGKNIVELFLSDEGD DVVIEVADQGCGVPESLRDKIF EQGVSTRADEPGEHGIGLYLIA SYVTRCGGGITLEDNDPCAPLT LLIVEDETPLAEMHAEYIRHIPG FSQILLAGNLAQARMMIERFKP GLILLDNYLPDGRGINLLHEL V QAHYPGDVVFTTAASDMETVS EAVRCGVFDYLIKPIAYERLGQ TLTGFPQRKHMLKSIESATQKQ IDEMFNAYARGEKDELPTGID PLTLNAVRKLFKEPGVQHTAET VAQALTISRRTARRYLEYCASR HLIIAEIVHGVGRPQRIYHSG
23999	54367	A	24137	2	243	RPGRGLGQRGIWEPAAILLDSV AQQQGAWLPHVADFRWRVDV AISTSALARSLQPSVLMQLKLS DGSADLEKRCERRLQD
24000	54368	A	24138	1	1483	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPPEARITRRWRIG EAAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGLRLRAEDVFPPI GVAAHKGGVYKTSVSVHLAQ DLALKGLRVLLVEGNPDQGT SMYHGWVVDLHIHAEDTL LPF YLGEKDDVTYAIKPTCWPGLDI IPSCLAHLRIETELMGKFDEGKL PTDPHMLRLAIETVAHDYDVI VIDSAPNLGIGTINVVCAADVLI VPTPAELFDYTSALQFFDMLRD LLKNVDLKGFEPSDLRYLQSC EWGDTGIFLKWSCIPAEKGLQT SGAWVEAADIPLLPGSPRRLSP QAGSRGGQGPKHGQQCLKMP GPAPGLQGGSNRDP/AP/GPAV ERAPAAALSSTTIWMPMSLCP WRPVLAACTSMTVRGRSTMYL PTTTGNAGCTWPKASLATRWL SSPMGRQARSLMLGAQVTL SW DRSMPPRRRRGRSSGRNLSTI

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24001	54369	A	24139	727	1498	GICIWDRPPGLADQRRSHSHGW WGELATPLPWIII/HLSDSHSGV RVSFGLGAQLPPEVAAMARLLG DLDRSTFRKLLAKFVVSSLQGED CREAAAAVLGSAPTCCRVAAGC LLAGMHTLLQQAIRLPPITSLK PDTFRDPAAGALHPPRPGRGLAG QRGIWE/PSGPSFDSVAQQARV AWLPHVA/DFR/WRVDVTISTVS ALARSLLQ/PSVLM/QLKAFQNG SSIPAFEVPPQPKFQELRYSVA/ LVVLKEMADLEKK/C/ERNLQD
24002	54370	A	24140	1	312	
24003	54371	A	24141	2	524	
24004	54372	A	24142	144	494	AGSCPFAAGPGLSGRCFVLR FILIQNRAGKRLAKWYMQFD DDEKQKLNEEVHAVVTRDAK HTNFVGVSGTFKIIPLPLCWPLL LASVWMFNDNKPGLYLGGPFH NFRGRS
24005	54373	A	24143	1	428	
24006	54374	A	24144	108	422	
24007	54375	A	24145	3	387	
24008	54376	A	24146	3	337	TRLMLLDRSQGKVVYGLVGR* RFQMQMDVLEGLNLITIRNRN KLRVYYLTWLRKIMDNDPKLE KKHDWTTAGYMEGCGHYRVG KYERIKFLVIALKSSAEVYAWA PKPY
24009	54377	A	24147	1	340	ERTRMNKQHNSTLAKSRPGNT GPEPLMPQASPGPPGLSQTPP MHRPVPEQEGPHKSLVAHRVP LKPYAAPVPRISLQDQDPTRN LAAFPASHDPDAIPAPTATPSA RGAV
24010	54378	A	24148	335	869	ATPTLLISQKSHFWPQLSSVLLK LTSGPEISLQSSPSPICRMKKRR LSPLASGLS*VKSGEWCEVLS RAPLFP/HNPSQAAP/EWEMQG TRPSIPHPLGLAGLPTQLQQGRL WGYRNPASPFRTRVAARDCAAG KQVRTGPDARLEGSRPGVRAG LGWGRGYSERVQTCAKSSVSPS
24011	54379	B	24149	158	5640	
24012	54380	A	24150	1	1854	

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24013	54381	A	24151	1	1510	MPCGKGQNLQVPGSKVLPGLG EGCKEMWLRKVYIGGEVWVK SPEPEFSLVNLCSQSWKINLM STVHSDAEGMLSYFLFEELMRC DKDSMPDGNLSEEEKLFLSYFP LHKFELEQNIKELNLADQVDT THELLTKTSLVASSSGAVSGVM NILGLALAPVTAGGSLMLSATG TGLGAAAATNIVTNVLENRSN SAARDKASRLGPLTTSHEAFGG INWSEIEAAGFCVNKWKAIQG IKDLHAYQMAKSNSGFMAMV KNFVAKRHIPFWTARGVQRAF EGTTLAMTNGAWVMGAAGAG FLLMKDMSSFLQSWKHLE/DG ARTETAELRLAKE/LEQELD RLTQHHRHLPQKASQTCSSRG RAVRGSRVVKPEGCLATSQPH QHQQERGDRPREDTNEKRG EKWSDFGSVLKGEPTGFVHGL DLWCEGKKSQDNGGLWPEQL AGWSCVHLKWTGGSRSLPVP VLDAACTGTLSPLDTSWRYHPS SIPLPKQLQHGF
24014	54382	A	24152	3	515	VGQTAGAAPGPVQFLSSAWVA L/HETELPPLTAREAKQIRRE/IS R/SSKVVMDMLGDWEKYKSSRK LIDRAYKGMMPMNIRGPMWSVL LNTEEMKLKNPGRVYQVRSARA OPTGQAVSQAQVSSWRERQDH PGELGVKIMKEGKRSSEHIQQ MDLDVSGTLRRHHFFDRDYG
24015	54383	A	24153	1	1317	
24016	54384	A	24154	1640	4841	TITGSSPLAGGHHSTCRGRMDM VENADSLQAQERKDILMKYDK GHRAGLPEDKGPEPVGINSSIDR FGILHETELPPVTAREAKKIRRE MTRTSKWMEMLGEWETKYKHS SKLIDRVYKGI PMNIRGPVWSV LLNIQEIKLKNPGRYQIMKERG KRSSEIHIIHIDLVRITLNRNHV FFRDRYGAKQRELFYILLAYSE YNPEVG YCRDLSHITALFLLYL PEEDAFWALVQLASERHSLPG FHSPNGGTVQGLQD
24017	54385	A	24155	1640	4056	

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24018	54386	A	24156	479	3902	GQVDEDVSVKMDTVPVYNLSC ILNEMRDQDKLVEKSYKDAK GCFFSMGEPSLIDPCLEVICYGT QLAQLQGLIRSMEQQLCELCCD AEHQDHEHQVLLDVKTRLEQEI ATYSRLLEVEDAQQGPIVMRA MTSECHWCLAPIRSPDCVCVLR QLHTRSGLIHKRFGKLGFLPER HNPGQLIHQNQSGCCSRMYPFD RKLGISVALNIPGGRSYRDLWC LTAVHHIPGIDHRLFTLGRM DMVENADSLQAQERKD
24019	54387	A	24157	780	983	QHQSGLGHKYQRSHRSL*AEPE* LECHQPDLAEPADGPPLTRYG IVNAEMGLEQLLPKGPSLKEAK
24020	54388	A	24158	773	2016	DWPTLRENKREPTLKYWGLVP LISGMPTWFFFLSACGNLIPSG GIRVPMENMLRVFRAVEEHCP WFPEKGTLSEQWDSVGAKFQ ELVPTGNYVPITVWGDWALLL QFSESGDPLPLQLSSPTGPSLS DQPLPSPTPPPPDDVENSISNSG DFGLTLPFGDLILFPEEPLAAS AAPNRTALGHIYANSSLFKPLQ HLPLESANGSGAKLQFTYNSAG PSPSSAAPRPVVSVQPVTLP TQAASLYPSSHMDTSNHQCTSA SSAPPMPLSHTLIPSDETTCNVF NYPLKKPTGRELREAKNKGSPQ KVHEKTPNGNRCISTEERPHEN KGFNHLLEWLAEKTTIHLDC WFIKDVNREQPDGRDAGDKR LCVKFLREIAANTYKTEVGAAK VMEILLHSHGATTIAN
24021	54389	A	24159	365	675	
24022	54390	A	24160	1	1191	

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24023	54391	A	24161	363	1434	QQGVCSGEKGGHWAPRQVGV YLLPGRVGVCSRVSPSPFGDG LDSSLARRGSASVALASGLVEE PMLGPPPHPTPRFKA VSAKSKE DLVSQGFTEFTIEDFHNTFMDLI EQVEKQTSVADMLASFNDQST SDYLVVYLRLLTSGVYLQRESQ VLRALHRRVDGTVQRSSAKQE VEPMCKESDHHSHHCAGPGPS ACPSRVGVHGTAAARAAPPRTS F/H*GVSPSKVYLLYRPGHYDI LYKLGLGSSPLGCPGCPLLARA LGHCYRGFSVVVNGPISPPSSCH MTPPPCFIKGGAGGPECVRVPA LLPAWLLCLLPPPRWVPLLF YLLSFPNRSRFEGPGLLEAPPA SLGSASFPS
24024	54392	A	24162	2	888	VFRSRHQGCLKMAAEEPQQQN QYPLGSDSEGVNCLAYDEAIM AQQRDIQQEIAVQNP.VSERLE LSVLYKEYAEDDNIYQKQIQD LHKKYFVHPQDQGLTGTCFYS GFRDSPTWEGTCWIDSKELQRF QGLVS/SQRSKGKTLVSQGLSL EFHNFEGFSTTTFI/VDLIEQVEK ADLCRRPCLASFNDQSTSD/VL VVYLRLLT/SRAYLQRESKFFEH FNEGGRTVKEFCQQVE/VEPMW QGEATTSTSLALAQALSVSIQV EYMDRGEGETTNPHIFGESE KVYLLYRPGHYDILYK
24025	54393	A	24163	3	819	EGATMAAPPQPVTLLIFDMDG LLLDTERLYSVVFQDI/CHRYD KKYSWDVKSLVMGKKALEAA QIIIDVLQLPMSKEELVEESQTK LKEVFPTAALMPGAEKLIHLR KHGIPFALATSSGSASFDMKTS RHKEFFSLFSHIVLGDDPEVQH GKPDPIFLACAKRFSPPAME KCLVFEDAFNGVEAALAAGMQ VVMVPDGNLSRDLTTKATLV NSLQDFQPELFGLPSYLEGRA SVFRQPPTLMVHTAGGKGKEIS NSSIPTCAVILAS
24026	54394	B	24164	115	594	
24027	54395	A	24165	4	160	SIIFPAIPVSLK*IKPNCPEPPPDH LLQAAWGCVSLGQGLSYSALN TLLYFT



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24028	54396	A	24166	88	2280	VPLYDRMGGETGLLIPSPFRSL HAATDAHSCKNRHSLTGKTDS LWQQDTKLQTRPKATQGGKES GGCGPHRPLLLLRTKSTPESKS AHDPPVAPAQAGASGCGRGAA QKGFKAACAVDGGQDRDTPG VPAAGPPTSSGRGDRGPSSRR TRSQTPESTGRPGSRQFQAAPP PSHHSRPAHAPFPGFQMYRGPL YSSSPAPATPNTSAYESPRFCST SYISSSPRFCPTSYICSSPRFCSTS YICSSPRFCSTSY
24029	54397	A	24167	2	352	WRITLIVLGMSCLSGYPK*MHLT HLIHC*S*EARSLVTLHIPLTICG EPRNIKLVCGP*IQWKK**KKI MNSRLSPFSRSRY*TSNLLGLP *LRGLSPVERELKLWTRHKL
24030	54398	A	24168	2	252	NKSSVFATSCSLDPSIMSLM*W TSVISCRSKK*SRSLRIRL*HKA KELIYPLPVRESMWGYCQLLS MSMPIMHAGTGEMTTG
24031	54399	A	24169	1505	1680	RTSSSLVTL*TLHEPAGT*VLTP GSTTGITVSGTVLFLILLSCLFSS TPFRLKLACLS
24032	54400	A	24170	681	932	
24033	54401	A	24171	1740	1950	HHHHLLQMSWSAGMQAWHW PSFYNVVTGKTLA/LPNLIALQH IPLSPAGVIKRPAPIALPNSCA ALLSSQ
24034	54402	A	24172	1	652	GKLTTEARTCCMQLTSDRHRH TALNHTTCSHHCSGVMAGRL GPITVLSGDGPKGMRALTMW HTLARPTGDLEAPRHGRPRIT ATQPDHAPPATSRNRAAPHN HTP/PHPQTAH/PTATHSHLTYR TPRPPTARTPL/HPHSHQQYPY Q/PTQSPYLAHPPAPPHSLHPS TTTRATVNAPDTRPTIYARESVPF GRLLNLGRQGMELANILQVH GP
24035	54403	A	24173	267	400	RFLHCGNLAGLLVGLFSFKLGE YEGGLPLAALTAGKGLFFLPLE SRLRLHRRPKRSPASFG*VSRH THAIHFN
24036	54404	A	24174	422	452	
24037	54405	B	24175	131	1047	
24038	54406	A	24176	2	199	LGLR/CARLEARARPPWATVRE KLWLFHGHPTHMRCSSWRGLFQD DLGLQKPLSGSSSAYRGCE NS

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24039	54407	A	24177	440	1746	RNLQCVFQGRKEGIPVLALS/L RSPSP/RVLHTATKQKNSCOHLE EDVDQTKWRDTDTPSMDKILME EVKLEEQLEAVEEDKQALAD TEGSEQSSQKLVEEGNMYSIQG FCKDSLEVADVLEKATQCVPEE EIKDNNPHLKNLCETLTMSEEL SQMVDCCRLPQDVSVLGVALH WVTPQMLCVPVNEDIPEVSDT VLKAITAPPRVPIGRTSGDVTGT GVRRRRVSSAMSQHRAFRDVT VTVQCLELGCFLRLVELASQFL KRPRSPESNEKVPEIEVTVEASA KMSHPTLYDATRSPWGMFQSQ SVLLSCAHHSLLRGATLDRCGS IDEESEWYGMDTFECTGVGVSI RRATEPERSSGSAAALDSHRSM HPIVNHACEGSTLRCPYENLMP DALSLSPILSSRSGDASPPQAEILP VVGPFMRMRCLTVDPPLDVT
24040	54408	A	24178	391	656	

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24041	54409	A	24179	1	2150	MEDSTSPKQKENQEELGETRR PWEGKTAASPQYSEPESEPLE AKQGPETGRQSSRPSPQSR AKTPLGGPAGPETSSPAPVSPRE PSSSPSLAPARQDLAAPPQSDR TTSVIPEAGTPYPDPLEQSSDKR ESTPHHTSQSEGNTFQSSQPK PHLCGRRDVSYNNAKQKELRF DVFQEEDSNSDYDLQQPAGGS EVAPSMLEITQNAKAYLLKTSS NSGFNLYDHLSNMLTKILNERP ENAVDIIFENISQDVKMAHFSKK FDALQENELLPTYEIAEKQKA LFLQGHLEGVDQLEDEIAENA LPNMESAFYFEQAGVGLGTD ETRYRFLALKQLTDTHPQRCRF WGKILGLEMNYIVAEVEFREGE DEEEVEEDVAEERDNGESEAH EDEEDELKPSFYKAPQAIPEES RTGANKYVYFVCNEPGRPWVK LPPVIPAQIVIAKIKKFFTGRLD APIISYPPFGNESNYLRAQIARI SAGTHVSPGLGYQFGEEGEEE EEAEGGRNSFEENPDFEGIQVID LVESLSNVVHHVQHLSQGR NWFNSIQNEEEEEDEEKDD SDYIEQEVGLPLLTPISEDLEIQN IPPWTTRLSSNLIPQYAIIVLQS NLWPGAYAFSNGKKFENFYIG WGHKYS PDNYTPPVPPVYHE YPSVPEMAEMDDPSVEEQAF RAAQEAVLLAAENESEDEDE
24042	54410	B	24180	1	489	
24043	54411	A	24181	39	423	RSPTDAASRSQCSSRRRRGVS KEVFSVSMARTKADWPANRTG G*STPRKPTGPTKSPLRKSAP/A PTGGGERNPRLQGLVTVAAP* NLDGYQKVHNSFLIRKLSLPSV WVREIASGLLKQLNRFQERQ
24044	54412	A	24182	3	384	
24045	54413	A	24183	1	434	MLQNVTPARAEWQRKTALQG VEDPVPARPPISSPEDLLRS GECSTAPTQRQVPQPVHE/SHRPTQ DSPGARRKPTSERGHTEQRAAP DREARPATRGWGLRPGGWLG GSEHAAAAPGSDHPRGRCRH HTILQRPLLSGKTES

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24046	54414	A	24184	15	286	LPSRGAWLGTCSPPCLSLPPPP WAPVRPEPPR*APPPAPRRPVPS TTQGLSGPHCFYEL*HSPRRSA ASLLKPARPRAHQEERTTPDAP P*EL*HSP*RSAASLLKPARPRA HQEERTTPDAPP
24047	54415	A	24185	2	214	CLSLPPPPWDPVRPEPPQ*VPSP APQHVPSTTQGLRSVGARRGT GRQLHLQSRGIIHWVKPAGLL SLGL
24048	54416	A	24186	308	311	LPSHGAGLGTCSPPCLSLPAAP WAP/RVARASPTSAATPQHVP PSTTQGPLGSPSTLRKL*SFALC NKSCCCLFGSTLPL*AVTLTA KVCSTPKA\ARP
24049	54417	A	24187	1	669	MMNEGSGISLSCDLGTALQLL SQAIVECLKLFQMLNRSTILGSG GQQPSSHSTKLRPDSGAQLAS PSGCTGAAGGAACQSRITVCSH SSALGWSMGLGAVEQGVVLV GEAQAAQEPMEGVGGSGMAG CRSRALPHGKAARKARIEHST GGLALLGDPVHSPQPLARVLSP SLPRASAGW/PAPSAGPPSPHP PGTPAGPQAPHAAPVPARASPS TPPCKL
24050	54418	A	24188	157	395	RCSSCQREMTPTYGK*NVQKRL KTTKNGSM*LKSHILSTPEQPA SPTSS/PPLLQPAAPAPPLMPRPS PPPGISVA*YPGM
24051	54419	A	24189	2	287	CLSLPPPPWAPVRPKPPR*ATPP APRRPVSTTQGLRSAGARRGT GRQLHLQLPCGIIHWVKPAGLLS LVGTWRTFMSSSGIVNTPISTLC LAQGL
24052	54420	A	24190	500	724	
24053	54421	B	24191	1	2154	
24054	54422	A	24192	688	1215	SRLAPALLSPVVVDGTGRCGA VGGAHWGGLGRTGAHGGGGR LRHGGLRVSPAPREGS*GPPR YRAQRWWAGT/DWRTQYTLRS CWPGTLPK*REMTPTYGK*NV QKRLKTTKNGSM*LKSHILSTP EQPASPTSS/PPLLQPAAPAPPL MPRPSPPPGISVA*YPGMPWTC PFYWQ

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24055	54423	A	24193	308	1131	VLQLLRRTWWSCLRAWSWDL IVPPGGLVVSASGVKLQTFVAV SVTALKEARLDLFVPPGGLVVS LASGVKLQTFVAVSVTAHKSSV DPKNSGQALASPSGSRTEAGG AACQSRVVRSHSSALGWSMGL GAIEQGAALVRGGSGRTGPME WVGSGSMAGCRSRALPRGKA AKAQREIEHSAGGPALLGDSVH PPQPLARVLSPPLPASRACWL LRVRGPPSPRPPTAGPQAPH AAPVPARASPTPLVHLTNDV LRVKVKWAFFTLHK
24056	54424	A	24194	192	818	SWCLSRVAVGDSMTSEVIED\E KQFYSKA\KTYWKQIPPTVDR HAWGEGPNKTGTSCALDCGAG IGRITKRLLLPLFREVDMDVITE DFLVQAKTYLGEEGRVRNRYF CCGLQDFTPEPDSYDVIWQIW VIGHLTDQHLA/ESFLRPCKGQ ASAPNGHIVIK\DNIA/QEGVILD D\VDSSVCRDLVVRRINCSAG LSLLAEERQENLPD
24057	54425	A	24195	1	233	FFFFETESRCVARLECSGAISAH CNLCPLGASNSPASASQ/CSWD YRCVPSRLANFLYFSTDGSPC WPRMVSNNLTS
24058	54426	A	24196	240	476	LLPQYRRVLLIYSGIQLPLGLGL RRRMCPGIYSFLDLFLVYLRRG VYSIL*W*FVFWLVVPWFSAPS GHLRSSLCCLF
24059	54427	A	24197	288	677	NLPEDVVPDDKPHQPLLRAVC LFVISKDLFLESPPESPIWRMYP NSTVHIQRLELALLC/CHCPRAL PASAHSCHSLERGLPICKE**CM PCSEYTIASQRAGGAPAILPEC DSRRRTTQATSEPGSHI
24060	54428	A	24198	99	399	LLCHGFEHPPLAQRSLLLPIV*S LLLSTRQSHSPSSFVPLLARSCG SWVSPAEEAEPQILQKGKCSCL IVPLEALCQRGTRLSLWLPLTF PSFQLWPV
24061	54429	A	24199	1	586	LSFFKVVSFFAIGSNILFSSEKFI TDHLKPSSPTCQSHLSSSFVPLL ARVAFRWGFGVDVLSFVSFSPN SQDPQLQVCGVCWRSTPDRLP GYHQRSGGCGRTADIEPQMLR LIVRLEVLSQRSTRPQRCSA/L LGASQLGCC/GVRDLLEEAVC PFSDL/KLHAGKTTLTFKAVRQ/ SHLSLQRLLLSFVCLCPT

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24062	54430	A	24200	1	822	
24063	54431	A	24201	1428	1801	RSAGIDPE*FFSG/PRRIHTASCL PSQRSSNRACSSSVTRIVSILSRF IGIITPMNRNPRFWRNSTSWTR MNRQTSVNRFTTTLMSFTAAA SRVSVMTVKTSDDTCSSRRRSQ LKKYHLSISTQVL
24064	54432	B	24202	1	2040	
24065	54433	A	24203	176	564	AWPEKWSYTTATRTTHFWMRS RSIMSTTKAFSTNSASDSLEEP SSRKTRSSSLQ*KSCNGGSEM SSTYRVVGLTGASLSASALNSLI DSRSNR*VFSRNTLANITRRNQ LKMPLAPDPDGSSGSPFQ
24066	54434	A	24204	1	774	
24067	54435	A	24205	1	1807	MPLRAFNPVSSFRWARGMTIV AALMTVFFIMQLVGQVPAALW VIFGEDRFRWSATMIGLSLAVF GILHALAQAFVTGPATKRFGEK QAIHAGMAADALGYVLLAFAT RGWMAFFIMILLASGGIGMPAL QAMLSRQPNDFHWTADRHGD LCRLGEHMERVGMDCRRRPIPC LPPRVASRCMEPHLDLNGSRR HLANGFTTFRIGANQFLRRTVN AQTNPWQNISIAISSSTRTRIS GSVGSWPRSGNAEVSALHHYV PDLHRRMLLATLWNTYICINEA LALTLSDFSLVPPHPYRQLFTLT TFHNRACSSSVTRIVSILSRFII TPMNRNPPYTEASVTKEKTAL NMARFIRSQLTLLLEKLNELDA DEQADICESLHDHDELRYSLC ARFGDDGNSYDHDYAKLACLQ VEGRGGGTFAHELLAVEYAGW ISPAFLKVMHWMNRMMLDAR NRDRYKQWKQDFHDSYNRQS AGHILSQCANLAATTSEYFIHKP HRLIAAETGYSQSTVVRAFREA VNGILSVEIVIGDHRERRADL YRFTPSFLVFAQQAKNALIESKS KISSAATKVRLLAPISPTSPMG KIGLATSGS
24068	54436	A	24206	291	851	
24069	54437	A	24207	2	694	
24070	54438	A	24208	2	331	HLSTIEPEDYNLLFRRVSLKLSV WLPTWQSKSNGWSKKCLWMH LKSNNLALLPPAGF*SATMPK CSAWAKTISSPGCVITEF*SQPV NAGTSPNKNNTLVGISPLKKP
24071	54439	A	24209	1	4455	

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24072	54440	A	24210	698	1088	LTSKFIAAVCMRRISLCGKGS QNTD SGIAATPCSCVSD*QNST SRIRM*PWMCPMPMKRSAT*N ITLRC*RAAPISSRVRK*/MSM Y/NHLQSAECGGHRPFVPQEE SILLLLHLIANRSSACHSIR
24073	54441	A	24211	1	1902	
24074	54442	A	24212	1	2898	
24075	54443	A	24213	1	2604	
24076	54444	B	24214	1	1254	
24077	54445	A	24215	1	2946	
24078	54446	A	24216	698	1285	RFWRNSTSWTRMNRQTSVNR FTTLMSFTAAASRVSVMTETA MTMITPSLHACRSKAVAAALLP MNC SLWSTQAG/CSP/DVSAEG KPD IYRLSNRKITTCYSAES/LL KLSVWLPTWQSKSNGWSKKCL WMHLKSNL NALLPPAGF*SAT MPKCSA WAKTISSPGCVITEF*S QPVNAGTSPNKNTYLVGISPLK KP
24079	54447	A	24217	1	1986	
24080	54448	A	24218	1	2262	
24081	54449	B	24219	1	1014	
24082	54450	A	24220	1	1155	
24083	54451	A	24221	5	386	
24084	54452	A	24222	1922	2146	SSSAGISCWSSSPTPGSIPSRVGS AAA*GWTTSSSTGSANPSASR KPAAAIRASMPNCRSGEARWP LWSGSL
24085	54453	A	24223	1091	1435	
24086	54454	A	24224	1	2919	
24087	54455	A	24225	1324	1502	
24088	54456	A	24226	1	2901	
24089	54457	A	24227	5	253	
24090	54458	A	24228	1227	3031	

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24091	54459	A	24229	1	1940	MNRQTSVNRFTTTLMSFTAA SRVSVMTVKTSDDTCSSRRRSQL VCKRMPGADKPVEGRGGGTFA HELLAVEYAGWISPAFRLKVN QTFIDYRTGRLQPAIPQSLPEAL RLAADLAEQKQRLQKMLMD APKVEFAERVATASGVLIGNYA KVLGLGQNYLFTWLRDNGILIA TGERRNVPKQEYISRGYFTLKE TVIDTSNGSRISFTTRITGKDVV RTTSIVMLAKVTFLLSCITMSDFT FSGYELACFVTHSGLSRSAHIL SQCANLAATTSEYFIHKPHRLIA AETGYSQSTVVRAFREA VNKGI LSVEIVIGDHRERRANLYRFTPS FLAFAQQAKNALIESKLKISSA ATKVKA VLAKTLALFNFLSTPP CQNDTPSPCQDDVAIKNKKSQ VKKTKRSVSGGAGTTSLKKLTS WIAKAKAKADNLRLSKKRTQK HEFKQKVEAAARKYAYLKNKR SPDIGGISNFDNLPHCMVTVNEA LNAVLAKNKDNEQWGA VAGA YIADITDGEDRARHFGLMSACF GVGMVAGPVAGGLLGAISLHA PFLAAAVLNLNLLGCFLMQ ESHKGERRGELLKIVVLPGDHV QGEITAEAIKVLKAISDVRSNV KFD FENHLIGGAIDLQGGGGK PRCVSKSLMLHCTR
24092	54460	A	24230	1	1230	
24093	54461	A	24231	1	799	MKPRTYTVSVTA VKDGVSGVC SFRCSDVSRVSSFQWVRGLADF RSEAADLHNSGAQLASPIGSR GATSGAPCQSRTHAPALLSLW AVDGTGRHGAGGSTRRQGGSG TQEPMVAGKAQAWRAAGFSG SGDGVGV SILVPWGGTCIGSFR QANSWISGGAFSDAGCDSRL GKDWNLSLEGSEERKMWESLE LPRDLKSSDRKMWESLELPRD LLNGFDQNADTICTMKSLRLW SQMEMKNLLGTGVNVT LVM L* QRDWRHLLLV
24094	54462	A	24232	416	775	
24095	54463	A	24233	548	882	PGGHQYPPCHLEEKETDPLLY TAVEEKGLSYIIPGSLVEKPLT STNSSGTPIQSNITSL* IPLAGIMS MAASQN*AI*WPLAPTMQSFTC TT*RLS*SHRRSWWHRGCT
24096	54464	A	24234	144	570	



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24097	54465	A	24235	254	1117	LSRMKRLRTLVSVTVLKDVVS GVCSFRYSVDVSGVSSFQWVRG LADFRSEAADRLGLKLQTFVVS VTPHKGSDPKSDQQRDLQR VKEQNFNRNVKGDPAALAHEDD VNGTESGAPRKHGDRDLDDV ITNPHIEAILENKDWIEDASGLM SHCIAILKICHTLTEKLVAMTM GSGAKMKTSAIVSDMIVVAKW NSPRVDDVVKSMYPPLDPKLL DTGTTTLLSVSHLVLVTRNA CHLATGGLDWDQSLSAEEH LEVLR EALVASEPDKGLPGPEG FLQEQAISAI
24098	54466	A	24236	472	844	RTDGLVWMSFLVFSFNSQD PQLQVCWSLLEVHSRCLPGYQ QWRLLCPHEITGESMSKLHIIQK YTSSCCLFKSSISERGSSTPCPSW LGSGEGLSTLHATDFSFSAPMA QRGKSSLVSL E
24099	54467	A	24237	206	456	
24100	54468	A	24238	50	392	LGLLPPFFHRCPTQRGGI*RGSLA TAALLSCGGLCPVGS/SRHLCL/ PVRGKRPTQASVMGDALPPTK LECPRSASGCCAGSDNFKPVDL SLLSSMGLGSTELDLAPWLQP PFQ
24101	54469	A	24239	1	204	SFSVQFCSLVGDPLG*SSCDPLE EKRCSGFWNIQPFCAGFSPSLW DYLVLVFDVDDLQMRSLSGCFF
24102	54470	A	24240	1	375	MCNAQVLEYMGKSSSLTSDL QLVRDALRSLRNSFSGHDPQHH TIDSLQGISSLMERLHVMTQ KKQERKPLVIPRQT/VWWSGP PANSNRPAEAGPDC*KEN*RDA LRSLRNSFSGHDPQHHTIDSLQ GISSLMERLHVMTQKKQERKP PLVIPRQTGSGVDLQQTPTDLQ LRDLTVRRKTNEQKGIASASTK RTSTPKPHL
24103	54471	A	24241	1	674	MVVYACSPSYLEAEVGGSLSLE VEATNPKNSSKKFLDLISEFCK VSGYKISVHKSVALLYTKNDQ AATQIKNLIPFTTAAQKFQYFGI YLTKKEERLKP SRKKITKKHTK KRTASLILHAMICSQIPKQQQNE KYQVPQFDQSTIKNIESAKGLD VWDSWPLQNADGTPPLVIPRQ T/VWWSGPPANSNRPAEAGPDC QKEN*QTERNSINIKKKDIHTKT PLCI

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24104	54472	A	24242	1676	1768	
24105	54473	A	24243	270	471	PSREYQDANPWLKWKYSVRT LNKSDCYASGYK*A <sup>1</sup> CLLC <sup>2</sup> SVYS HGKAAGECTLSAGSKNGLA <sup>3</sup> EVI KK
24106	54474	A	24244	23	200	AQMKAHGRSRSS*RC <sup>1</sup> DEEHWR ACRAQEPPCSQSQRERSKRTCR QGT <sup>2</sup> VASKVKCHSEAR
24107	54475	A	24245	3	270	ASTSHVPQPCGLDDLAIRHSAV RLNRERVHSTAVLP*EYTKQRR QGHL* <sup>1</sup> PDYPYKKEGAATNEDAL LLRWERGRGARLHIPGCKAPQL
24108	54476	A	24246	135	275	
24109	54477	A	24247	365	583	
24110	54478	A	24248	2906	3114	
24111	54479	A	24249	108	405	NLHTPYRQSLGQGEPLDDYV NTQGAS/LFSVTKKELGAGSIEE CAAKCEEDKEFTCRYFHCRC <sup>1</sup> TF LSIPQVTSF <sup>2</sup> LCFPLPL <sup>3</sup> LKSSK LLANRD <sup>4</sup> KYRM
24112	54480	A	24250	1	386	
24113	54481	A	24251	1	808	MSYSQCVSPDKAHGILPGYHC WLF <sup>1</sup> RDQGL <sup>2</sup> LK <sup>3</sup> QSHVINPAKAST GFFLQDTLMVLEIKTIRNYYK HLYAHELERLEEMDKFLDTYT LRL <sup>4</sup> LSQEV <sup>5</sup> IDSPNRPIMSSKIESV KGYTHQ <sup>6</sup> QFCHKSTLNK <sup>7</sup> GDRVI DNLTCPPYCCVWFPLAGTGPHI LYLSRLVSNLEL <sup>8</sup> FKRGKGRGEQ RKEEVT <sup>9</sup> CGMLR <sup>10</sup> KS <sup>11</sup> LV <sup>12</sup> SD <sup>13</sup> LPEP GGVTSEGCETAKVTACSSLWE LCHREVLTPYCPKDT <sup>14</sup> CRK <sup>15</sup> WLE TPVRRSCPVR <sup>16</sup> SRIST <sup>17</sup> CL <sup>18</sup> RK <sup>19</sup> KFG HILAEQLSCA* <sup>20</sup> RCL** <sup>21</sup> FL <sup>22</sup> /YGC <sup>23</sup> FY FQDHECVLKEESST <sup>24</sup> SFGRINHV LTLKEPLVPE
24114	54482	A	24252	833	1245	ANMFP <sup>1</sup> AF <sup>2</sup> AA <sup>3</sup> VAAGA <sup>4</sup> ATEAAA AAAA <sup>5</sup> AP <sup>6</sup> LAP <sup>7</sup> ARRAAAA <sup>8</sup> ARG PPL <sup>9</sup> RLP/WSCAEVMYHPQPYG ASQYL <sup>10</sup> PNPMAATTCPTAYY/RA GAPTWPAGESPDGQ <sup>11</sup> PAGGGGG GHREYRSGARRRPAGTRGAED ALGSAGASLSRK <sup>12</sup> PK

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24115	54483	A	24253	145	766	TGCIREKFHLPEGSLTIVSSRRKH LQRLAFQAKVSSMMLPLQGAQ MLQMLEKSLR/KSLPRNPLKVY GTIVFHINHG/NPFLKAVV/DK WPDFN/TVV/CPQ/EQDMDRW TLDHYITIVYQIYKDPQNCQEF LGSPELINWKQHLQIQSSQPSLN EAIQNLAIAIKSFVKVQ/TQRILY MGRLETA/KELTPFLAGNQRIIS PSGWAKPKAM
24116	54484	A	24254	215	550	VGFRSCLVMSGRGKGGKGLGK GGAKRHRKVL.RDNIQGITKPAI RRLARRGGVKRISGLIYEETR VLKVFLENVIRDAVITYTEHAK RKTVTAMDVVYAL/KRQGRTL
24117	54485	A	24255	3	292	TLNLNLAHAHCSGPCLLWFQLSF RSPSTSAVGRCCRPSADFHPSRS SRVSAVLLIQ/QRCPLPILQLKA CHCSCATAKWLGSPPKETFEEII HPSPS
24118	54486	A	24256	1	789	
24119	54487	A	24257	3	256	TLNLNLAALSSGPCLLRLLELSFH SPSTTAVCCRHRPAADFPPFGR VSSLLLIQ/QRCPLPILGLKACQ CSCAAKCCVRPNRAEQ
24120	54488	A	24258	3	212	
24121	54489	A	24259	2	491	
24122	54490	A	24260	20	272	
24123	54491	A	24261	160	876	
24124	54492	A	24262	623	796	GANSWNLTGTLAVKAGTVENP I*VFATHVESAGPR*LDPRTGSL AVRTKGRHWDQGA
24125	54493	A	24263	242	659	TSNSPPQTRPHVCHGPRQYLLQ LSSRDLEFLVQIAVRSLCPGLR IRSPVFAVASTTFGTLRGKV KDFGVFVPPPWGQPCLCPEVER ALSCQGPVVDSCRPCRGHEGM AYHTQQMRSADEGQTVFYTC TNCKFQEK
24126	54494	A	24264	66	238	
24127	54495	A	24265	2	278	
24128	54496	A	24266	168	565	TENFRALSTGEKFGFYKSSCFH RIIPGFMCGGDFIRHNGTGGK SIYGEKFDDEFILKHTGPGML SMANAGPNTNGSQFLICTAKTE WLDGKLVVFGKVNGMNIVEA MECFVSRNGKTGQKITA/DCG
24129	54497	B	24267	20	88	
24130	54498	C	24268	183	254	

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24131	54499	A	24269	412	590	KSGLATQG/GRRRGWVFLAPQ KGGEGVETQREGVGVLAPSPE KRDLPLRVKDQGRPCVV
24132	54500	A	24270	550	852	
24133	54501	A	24271	207	381	
24134	54502	A	24272	412	589	KSGLATQG/GRRRGWVFLAPQ KGGEGVETQREGVGVLAPSPE KRDLPLRVKDQGRPCVV
24135	54503	A	24273	191	235	
24136	54504	A	24274	95	375	AEKIWEGVSQRALGQSSRGSGS GCQMNPLSGRPQVVCFFTAHM LTKKREEGASMLNMPCFQ*KE EMIQANLGPADSSHCLGIEGPP WAPLTP
24137	54505	A	24275	144	293	WQVPLFWQPFPEPELWPKAL* LTPSQIFSD*RLKTDAA SPRKP PAPR
24138	54506	C	24276	1	909	
24139	54507	A	24277	1	1744	MGCLGTQRAPRAFLLLPLPLHF AQLSNLTQLQAAASLSMVTHR SSGGGGERGATAAGTEQGGAC LAASLLRGLWDAGEVTPIRVRV RPYDPFTLAPLHEHSEAQCVAS PSLTVTKFKSLPKSLLAGSREV ARSRALCHGQARPPRPQVTQQ RTQLQGQRLQWRPATEGPHSP RRGSDSAKGTHPPTTGTCPPRR RQAGYSRYNSGESRRRLGRQ QDLVARSDEQRDPAPATRRD KMIEELQPFGEHRPRRSPSGQC DTLFQALWFLASPSFQRRGGQLQ VLALCKAAAGPGAPQAAS TAG TREHGYAWKLGDTNRHRAK RKSQTLWLRFPAGCPDVCSAL ADLRAF MGLRGEEVCADWSM GGHSGGECRRGTGGQRAVVPK SPVQEKGEPLSLLYFMVDEK ERFLRITSEHEDNDNSNNSSNHS SINETKETCFIHEPKTPAPVTDW EGSLPLVFNHCRDASLIHSCFK GVRPHRDACLG/RTLSGK/FPL SWGGRGKYPSTPSPPLAASPTFL GQGQELVTSARNLTTRPNAC GPGFLLSHVPSVRDPTGNRTVQ LTWQPLPEPELWPKAL
24140	54508	A	24278	2	120	QSSAAKPRTSKGSVREPWAR VPGALGVAAR*AEQSD FQ

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24141	54509	A	24279	1135	1483	ILTMGTGSLSTPSNAVIEKV*VC CSSLSTG*SKV/QVASNTSLCDG ED*GVVIQKKVKLWVFCIFYVL VQSYYS*R*SQIETVRNGCSHW GRFQDIALITGHCKIWTLIVFIQ YFNV
24142	54510	A	24280	1	860	ATTGCTNLRDDIMRLDDTVHV VIATPGRILDLIKKGAKVDHV QMIVLDEADKLLSQDFVQIMED IILTLKPNRQILLYSATFPLSVQK FMNSHLQKPYEINLMEELTLKG VTQYYAYVTERQKVHCLNTLF SRLQINQSIIFCNSSQRVELLAK KISQLGYSCFYIHAKMRQEHRN RVFHDFRNLGCRNLVCTDLFTR GIDIQAVNVVINFDFPKLAETYL HRIGRSGRFGHLGLAINLITYDD RFNLKSIEAQL*TEIKPIPSNIDK SLYVAEYHSEPEVEDEKP
24143	54511	A	24281	848	1218	PMQRKSMLKISVS/PVSVQKFM NSHLQKPYEINLMEELTLKGVT QYYACITELQKLAETYLHRIGR SGRFGHPGLAINLITYDDHFNL KSIEEQLGTEIKPIPSNIDKSLCG AEYHSEPEVEDEKP
24144	54512	A	24282	241	477	
24145	54513	A	24283	38	208	MTAGAPPPPPPFETPEGV*GNP TCSGG*EDASGSTRSRQHPVGL PVSCALRACHLK
24146	54514	A	24284	794	1455	AQQGGTSKKRRFPQDQQRAG LACSRPPGPGCGFQAPAGERY PNIKPHPTSVAPLVLCICYLM/P MLPWAWSYWRGARRPSRHPG AFPCSVAHQCPSAARSPTLRQE DPEKGSQASSFPTGSPQSMVD RCLKGQQLDVSRRQSLSPQTGL RPVLVNQLSKKPTGYPTQIQW VLMRDTGKDTDTTEEKEGHAK MEAEIGVMYPQEHLEPPESGRA KGEIPL
24147	54515	A	24285	90	354	QSPGVHQLSRFVS*SYSERP*SL LVSTRYHTRALH**HYADSIQ* ARSSKHTGLIGCTVP*RGFPRT SFYSRKREPRRTSSFRGIL
24148	54516	A	24286	236	520	TACFLTHVAIKWVMHSSIPSSN GGGIYMIGLKAQVSMYMRKWLK SPWSPLLLSPSLHRWPHGKFFM IS*QRKRRLLGPGSQMVLHDMQ APPKSQQL

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24149	54517	A	24287	16	278	FAQAMKPHLVQQLQLESPLG* AYDNPLSFSKIHLSDLHKPVL*L GDSNDVLGTLESMSAQSCPV VPMSDHLPPMHSPGKRPEV
24150	54518	A	24288	74	168	LGKCLFLHSCP*APPEAICLQLP LLSSPNGP
24151	54519	C	24289	92	564	
24152	54520	A	24290	1	876	
24153	54521	A	24291	71	282	PLVTQVVFRLFPTNSSDLLQ/S PSP/GSGPHSNWQPFGLDKWA GVKHPNEECAASKIQTGPPCVV PLPWL
24154	54522	A	24292	81	1054	PRLFSDCFPPPTAAWTCRAFSC SGPHSNWQPFGLDKWAGVKH PNEECAASKIQTGPPCVVPLPW L*EEPNAIYPSVPVCFLLLA HWIQA*CHQCNGPVWYLVEV KSNQVLSK*HYDTKPES*YTPY GQEWKRGHLPQWPHTRYQE MY*FAQAMKPHLV*QLQLQSP LG*AYNNPLSFSKIHLPSPHGSH SEPCL*GPTRTLV*L*KQTGM LAVAPEENQHLYAWQLPQGRP SLLPQAVQGLSPQTKVERLMA ASVGEGMLPILGMEKLF/PSGK KD*SGFTSSVSPASSGSHTSF QVAGSHSPINAFTLTVTDW
24155	54523	A	24293	5	88	
24156	54524	A	24294	779	1041	PPLSSSPGP/DEQSD/LWWQSSIP LHQETVKVLH*MGVPVPCATQL DKIHQQGFSDPYRGAVLLASG WCPKRPEIPEEGATTHLCCFPAS
24157	54525	A	24295	248	3714	
24158	54526	A	24296	4177	7804	TFQESRFEQGFQKAIFILELVDA EDPDEEEEEASSIFSSFFLFLP SSSSCSFSSSSSSLLRSPGDKD MPTAGMPSLLQSSSESPQSYPE GEDSQSPLQIPQSSPESDDTLYP LQSPQRSSEGEDSSDPLQRPPG KDSQSPQLQIPQSSPEGDDTQSP QNSQSSPEGKDSLSPLEISQSPPE GEDVQSPQLQNPASSFFSALLSI FQSSPESIQSPFEGFPQSVLQIPV SAASSSTLVISFQSSPESTQSP
24159	54527	A	24297	145	219	

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24160	54528	A	24298	191	1075	QPKVSRHCQTSPGSYLYSLQSG RWTGKPLQQTKS VYLRSFHH HHFQNHRRHYLHHHLLYHHHH YHPHPSHHLLHCY\SQHHHHH HHHHHHHEHHLCRHHKSTQVE YSVFAERENDLGNCTGDEAL HDNGTTERVSGPPAGYLYRAD YAIQLQPFMPRLGRRTPGAGGP HSRAPELAYLQKLITSPATLPFV YLETGGWSPRDAHRVDNDFDM GPRENMGVSVEKSLFTRNPSK SSYIADKNLIYLYASECIGRQSQ KARASKSGVQAEHPYITGAIKD DTRAIKTRDLANRLK
24161	54529	A	24299	155	381	LICTSFKILSRLLFCPSLL*SSSSQG ACISKLLSVLTIAHLYFALEKE VLTFLSRAIVSSSTLLTHGVAHS LTLFH
24162	54530	A	24300	1052	1338	TGWDGPPANCSSPMEGDSNVH CSCVCCSCFGLLL/CAIHCCCA PPGCSACGAATLLYSAPLGSSA YGIALLSPFHHVRMMLSTKQEV GLHQTLLNLP
24163	54531	A	24301	1	723	MLNVQALVVMVMCFMWASL WAPGGHPSAGNISWVSGLVSP PEWSSWELVVS VVGWAGKLW LHESLLTLNLSCGLLVVLVALV FDEWHWPWSGHVAEACSTGYWS TGGIWFHEIAAP*DCSSSPAME QSWMEND\DELIEVGFRRLVIT NFSLEKEDVRTHLKEAKNLEKR LDEWLTRINSIEKTLNDLMELK TMARELRDACTSFSSQFDQVEE RVSVIEDQMNMKREEKFREK RVKRNEQSLQEI
24164	54532	C	24302	295	430	

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24165	54533	A	24303	811	1947	QTERNSINIRNRNGHQHNPICRS PSSKTKGSIKPQRSGRNQSRKA ENSKNQSTSSPPKDCSSSLAMK QSWMENDFDELGTAGFRRLVI TDFSELKEDVQTHHIKEAKNLE KKIRQMVTNRINSVEKSLKDL ELKTMARELCDACTSFSSRFDQ VEERVSVIEDQMNMCKRKEKF REKRVKRNEQSLQVIWVYVKR PNLRLIGIPESDEENGTKLENTL QDIHQENFPNIARQANVQIQEI RTPQRYSSRRATPRHIIIVRFTKV EMKEKMLRAARQKGRVTHKG KPIRLTADLSAETVQARREWGP IFNILKGKNFQPRISYPAKLSFIS EGEIKYFTDKQMLKDFVITRPA LQELLKEALNMERNNNWQPLQ
24166	54534	A	24304	1	2394	
24167	54535	A	24305	1902	2413	
24168	54536	A	24306	2	610	WAPPAIHIRCMPAEAYNFRKPL SLIPSAIQSNELIIMNGNRALNIQ LLKRYQCTLDIRYKQTSMLNC YEGTVITPSHIQYPCLSDSYGLY DIGIRNTDFLKGELSMNIRPLHD RVIVKRKEVETKSAGGIVLTGS AAAKSTRGEVLAVGNGRJLEN GEVKPLDVKVGDIVIFNDGYIG VKSEKIDYEEVLIMSESDILAIV
24169	54537	A	24307	1	801	
24170	54538	A	24308	1268	1579	TAIWSPSKSALYAAQTSGCSWI ALPSISTGSNAWIPRCRVGARF SSTGCSRITSSRISQTTASSRSTIF FAALMVVARPRSSSLP*MNGLN SSSAIFFGRPH
24171	54539	A	24309	583	796	IHCIDIRFSATPAGGEFWQYIAS RQSFHAIIVETGHALIQSSVPG LTPAMKAVATTSH*TVESCFRS ASR
24172	54540	A	24310	1	313	MPNVVVGEMVNTMSASRSY QANVEVLNTEKAMSIATTTDP TNTGVSTTSSSLTG/SNAADLQ SSFLTLLVAQLKNQDPTNPMEN NELTSQLAQISTTLRAY
24173	54541	A	24311	54	323	SASAQVSALSIHSAAFQNEYLSP CPN*RLVSFAFTNSSRQSG*PEK SVSQTPVITASAF*YADIAASV RNKILRPGTNVFGDTIGFRVQ
24174	54542	A	24312	816	866	
24175	54543	B	24313	1	985	
24176	54544	A	24314	1828	2505	
24177	54545	A	24315	1	1938	



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24178	54546	A	24316	4201	4668	
24179	54547	A	24317	269	503	
24180	54548	B	24318	1	1702	
24181	54549	A	24319	829	1584	
24182	54550	A	24320	1238	1926	IQAAYNRIAPSSSPKFPACGKP CLGERGIRGPGPSFGLINRPST PDPITITGVSTT/SSSSLTGSNAAD VQS/SFLTLLVAQLKNQDPTNP/ MENNELTSLQAQISTVS/GIEKL NTTLGSISGQ/DNSQSLQASNLI GHGVM/IPGTTVLAGTGSEEGA V/TTTTPFGEVWDGTL/TDGT APNGSYNVAIS/ASNGGTQLVA QPLQFALAAERFCALSPGAPYR YDTWVRQWVASP
24183	54551	A	24321	487	1509	FYLQGLRQQPQVRQPLNIGVTA QGVNAAACHPHIAEQQLDHRH RTNVLRITNGVLRPAEGIERGS FIVSTGFCDFVADFQERVFWR TDVFNHWRVAGNVLFQQVPH AARMLQRGIAFGEAVFVQFISP GGFIVLAFRRV VAGEQAIFKAVI LTHDQAGGGIGFVFAVEFFIV QQVQQYA*QESNVSTGTNRGIV VSYRRTRKARIDHNQLRAVV NFGFHRPAEPDRVSAHHHDEV GVLDVDPVVGHRKTFDDIWH DQFIDQVRVRRFSGDNRRLQDRE QVGLQSANNPIDKSLFRGINQF QLYAAFTAQDVNIDIFKTRQQF FAVIGQTTGVQVQK
24184	54552	A	24322	377	749	
24185	54553	A	24323	140	298	
24186	54554	A	24324	342	1094	MGAPWLHRPRRALQRWRLGS GFSCGSLGLQENNGRRPVMV LALSTLPRRPTRCGEFYCLIKP GFRLGMKSVKMEIRGLWAGGE DKIAVPAEPRASGPERTLSDLH NESIF/ITGGGSLGLALVERF/IE EGAQVATLELSAAKV/ASLR/Q RFGEHILAVEGN/VTCYADYQR AVDQILT/RSGK/LVNTPAETLE TGFHELFNVNVLGYLLGAKAC APALIASEGSMIFTLSNAAWYP GGGGPLYTASKHAATGR
24187	54555	A	24325	1	1785	
24188	54556	A	24326	2	1760	
24189	54557	A	24327	2437	2679	TFQYIGQPHGDEFPHVAPVKHG DKLGEKGNHDKSRHLFHRFN H*MR*IRLTSNCAGSDAISQRD NKEKNQDQWHDITFNKG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
24190	54558	A	24328	3	415	
24191	54559	A	24329	1	1932	
24192	54560	A	24330	1932	2117	RAISLGRTAAGYLNSDVAQRA ASGADPAGDFVFWH**IRKNLS GGARYAIPHL YQHLAWHP
24193	54561	A	24331	1	1017	MRYREPPARGVEPNELHACRSE DKLSEDAFDQCTGANPRYPLI SELKQILLDTYYGRDYVEDRLS FLLAVALNNGERLDGEMSEGG LVMPFRHVSDAFEQTRETIGVR GNNAINDMVRQRLN\RTFSEQ AEGNAIYRLTPLGIGITDY YIRQ REFSTLRLSMQLSIVAGELKRA ADAAEEGGDEFHWHRNVYAPL KYSVAEIFDSIDLTLQRLMDEQQ QQVKDDIAQLLNKDWRAAISS CELLSETSGTLRELQDTELEA GDKLQANLLRQDATMTTHDDL HFVDRLVFDLQSKLDRISWGQ QSIDLWIGYDRHVHKFIRTGID MDKKPRPSRRCL
24194	54562	A	24332	5	220	GLSWLNYC*ASTLTISLRCA AVPLTRICRPRLPSRRERTAL PCITYVKIAVTLTLATCASCVR WIPA
24195	54563	A	24333	3	180	
24196	54564	A	24334	229	564	PGFKPRHSSWQRLPSLGHPL Y GSSVFTLLNLATAHSSGPCLL Y LELSFHSPSTTAVCRRHRPTAD F HPSESGRVSHVLLIQ/QRCPL LL WIRLKACHCSCTAKCPGSSQLS
24197	54565	A	24335	148	404	
24198	54566	A	24336	213	1306	SCHEVAHGRGIMDLSLLKALS EADAIASSEQEVQRILLEADR LQKEVRVDGLGSVLRLINESTG PKVMICAHMDEVGFVMSISRE GAIDVLPVGNVRMAARQLQPV RITTREECKIPGLLDGDRQGN D VSAMRVDIGARSYDEVMQAGI RPGDRVTFDTTFQVLPHQRVM GKAFFDRLGCYLLVTQLRELH DAELPAEVWLVAASSEEVGLR GGQTS\TRAVSPDVAIVLDTAC WAKNFDYGAANHRQIGNGPM LVLSDKSLIAPPKLTAWVETVA AEIGVPLQADMFSGGTDGGA VHLTGTGVPTVVMGPATRHGH CAASIADCRDILHMQLLSAFI HKSNELGGVLRRLRIQICRDGNE
24199	54567	B	24337	1	1075	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
24200	54568	A	24338	438	1462	QIVQCLDVPSYTFIWFVAVLDPIY GDSVSTGLVVAIHSIIVNAITPIG LYLLNPSSGADGKKNSNLSALI SAAKEPVVWAPVLATILVLVG VKIPAAWDPTFNLIKANSOVA VFAAGLTLAAHKFEFSAEIAYN TFLKLILMPLALLVGMACHLN SEHLQMTLASALPPAFSLKLIY CAA/ARLMCYTRTGTSLAITLT ETVTQKL TGSRPRISSYGRNLM WPLAWYKDNKGPHLCSQLETT RIHSTAAQGRSSGSLRRGLGAS PFYRQHDQARSEGQIPITRIPMG LAQRAPKGRAQPRGLTAPFTN GALGQPQGRGTSKQASQTRPR ASAWPHPTT
24201	54569	A	24339	30	177	GSQYQRCHNNAASDRLRSYRK QPAER/WLAPPDITSPPASRRRA LILLY
24202	54570	A	24340	3350	3430	
24203	54571	A	24341	425	824	SISGSENA CFNATNHSGRYSQY GACLTSSSCRKGQLARRGLSYQ SPHAPADPAFPAARRSPVFCLS DDGGHKSPRDMSPDKPSRHPD QVALTRRIPPPAVALPSVVKR TVHEGQGDDESNPSLSPDVH
24204	54572	B	24342	1	2118	
24205	54573	A	24343	1	888	
24206	54574	A	24344	730	1101	
24207	54575	B	24345	1	1992	
24208	54576	A	24346	880	1103	TMMRRLISRQPVLPQKCFSLVLI SNPWRVFGGTGGGNQER/CRY AEESVAETRLCP*CRLYAEYDP GSGCAGLSL
24209	54577	A	24347	1	952	MITLRKLPLAVAVAAGVMSAQ AMAVDFHGYARSIGVWTGSGG EQQCFTTGAQSKYRLGNECE TYAELKLGQEVWKEGDKSFYF DTNVAYSVAQQNDWEATDPAF REANVQGNLIEWLPGSTIWA GKRIFYQRHDVHMIDFYWDIS GPGAGLENIDVGFGLSLAATR SSEAGSSSFASNHIDYS/NEN AND/VFDVRLARWDSPPGPLTG FPSPALACTSGVSGQKGVGPP EAQVTFATPKKPGKEACSSIQV LNRGYRPPTFSYNTGVRRSARD YYPRRQRSISTNSPSRRWKGL NSRRCTGNRPLVGAVS

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24210	54578	A	24348	805	1274	ASFATIRPVTKLAMRVAIFDSV VGQRYWGSAA SPEHSRFAVLW ILASIFR/DRIASLRVQATVK S*K MS*AWYWQGC FRNWKSSPA*Y QFFSPARSASSHFAGEPVSLHSP IALGYRSESSSCHTSTASLSVH RDY AHLHGLRFDHSSRRRI.CY C
24211	54579	A	24349	275	490	
24212	54580	A	24350	1	696	
24213	54581	A	24351	1	735	MFIPDYRSVSRVLGSGPGYASR MNQPDVMPDIPGKRFYQRHDV HMIDFYYWDISGPGAGLENIDV GFGKLSLAATRSSEAGSSSFAS SNNIYDYTNETANDVDFVRLA QMEINPGGTLELGV DYGRANL RDNYRLGKGLSQSGGVAFDNE KFAYNINNNGHMLRILDHGAIS MGDNWDMMYVGM YQDIHWD NDHG\TK\WWTAGIRPMFKWT PIMNTGMKF/GYE/NVESQGGP QNIRTIYLAKP*QPDVMPDIPGK RFYQRHDVHMIDFYYWDISGP GAGLENIDVGFGKLSLAATR EAGSSSFASNNIYDYTNETAN DVDFVRLAQMEINPGGTLEL VDYGRANLRDNYRLGKGLSQ SGVAFDNEKFAYNINNNGHML RILDHGAISMGDNWDMMYVG MYQDIHWDNDHG HQVGGPAG IRPDVQVDAHHEHRDEIRYEKL NPRARDKTFVQFTSQNPDR
24214	54582	A	24352	1	3414	MIVQPLAIIGSHFDSIAAGNLAR PIAVYGRNEITAFASLKTMQQ ALRGTVSDVRKGSQEMHIGIAE IVAGNNDLSSRTEQQAASLAQT AASMEQLTATVGQADNARQ ASELAKNAATTAQAGGVQVST MTHTMQEIA TSSQKIGDIISVID GIAFQTNILALNAAVEAARAGE QGRGFVAVAGEVRNLASRSQ AAKEIKGLIEESVNRVQQGSKL VNNAAATMIDIVSSVTRVNDIM GEIASASEEQQRGIE
24215	54583	A	24353	1	2493	